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ABSTRACT

The study reported here developed and implemented a training program designed to provide future K-12 media specialists with the technical expertise to utilize the Internet. The six modules of instruction which were developed for an education class at the College of St. Scholastica in Duluth, Minnesota, included videos, lesson notes, transparencies, examples of software, and exercises. Each module covers a different aspect of the Internet and contains two hours of classroom activities. The first module covers IBM computer basics, introduction to networking, and the Internet; the second module covers WAIS, WWW, Gopher, Veronica, Archie, and file and software types; the third module covers finding and transferring files, FTP, and commercial vendors; the fourth module covers other resources on the Internet including library catalogs, graphic images, and Internet Hunts; the fifth module covers ethics, copyrights, dangers, and games; and the sixth module brings the information from all six modules together. A concluding chapter presents observations on the implementation of the project in the following areas: participants, technical problems, techniques, time, general observations, and implications for future study. Appended copies of the course syllabus and the modules make up a large part of this document. (Contains 25 references.) (JLB)

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AN INTRODUCTION TO
THE INTERNET:
A TRAINING PROGRAM

By

Diana L. Johnson

A Master's Project

Submitted in Partial Fulfillment of

the Requirements for the

Master of Education Degree

The College of St. Scholastica

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"PERMISSION TO REPRODUCE THIS
MATERIAL HAS BEEN GRANTED BY

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This project represents a miracle. Even though I was working full time at a very demanding job, taking classes, teaching a class, and trying to keep my personal life in order, I still managed to complete this project. I would not have been able to complete this degree program without the help and support of my loving husband and son. They kept the house in order while I studied and worked. Also a special thank you to my husband for providing me with Coca-Cola during those long nights and weekends in which I was stuck in front of our computer. Thank you, Kurt and Duane. I love you.

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Table of Contents

Acknowledgements	2
Chapter 1	
Introduction	4
Background	4-5
Purpose	6
Significance	6-7
Nature of the Study	7
Assumptions	7
Scope and Limitations	8
Definition of Terms	9
Chapter 2	
Literature Review Plan	10
The Origins of the Internet	10-11
Growth of the Internet	11-12
The Internet and the K-12 Community	12-15
Training Needs	15-17
Uses of the Internet in the K-12 Classroom	17-20
Dangers of the Internet to the K-12 Community	21-22
Summary	23
Chapter 3	
Procedure	24-25
Chapter 4	
Summary	26
Conclusions	26-30
Implications for Future Study	31
Appendices	
A Syllabus	32-38
B Module #1	39-60
C Module #2	61-74
D Module #3	75-103
E Module #4	104-115
F Module #5	116-123
G Module #6	124-136
References	137-138

Chapter 1

Introduction

The Internet offers resources to teachers that have never before been available. The Internet is a "network of computer networks" that spans the globe. Access to the Internet can give a school access to the world. Laquey (1993) quotes Patsy Lanclos, an Internet trainer, as stating the following:

...I think one of the greatest things I have seen regarding ...the Internet is the enthusiasm it has put back into teachers. Teachers who were tired and worn have suddenly been retread and are ready to roll! They are out there creating new and innovative lessons incorporating telecommunications of all kinds. They are taking risks. (p. 17)

The Internet can be very complex and includes many different software tools. Teachers and Media Generalists need training to develop the skills needed to use the Internet and its resources.

Background

Our society has become a global one. Education can be enhanced by exposing students to what the world has to offer: different cultures, scientists and research, NASA and space exploration, the Smithsonian gallery, earthquake information, travel advisories, and library catalogs around the world are just a few examples of what could be made available to students.

The Internet is a collection of interconnected networks, all of which can communicate with each other. Presently there are over 15 million people who use the Internet on more

than 1 million connected machines. The Internet is presently growing at a rate of over 1 million people a month (Carlitz, 1993).

Access to the Internet is now available to the K-12 community. This wonderful resource allows teachers to expand their classroom to include the entire world. Access to the Internet can allow for the following:

- science classes can communicate with research scientists
- language classes can communicate with classes from other areas of the world
- social studies students can send e-mail to the White House
- students have access to online encyclopedias and graphic images
- literature classes can receive the latest book reviews
- students can download free software
- the school library has access to library catalogs around the world including the Library of Congress
- students can read the latest Supreme Court rulings
- current weather information and maps are right at students' fingertips
- music classes can access the lyrics to almost every song written
- teachers can exchange lesson plans with teachers from other countries
- administrators can get the latest grant and funding information

Each school will need a leader to take advantage of the vast resources of the Internet. The Media Generalist is the logical person to take on this new responsibility. The Generalist will have to take a leading role in implementing access to the Internet. Teachers, administrators, students, and the community will have to be trained and informed. This technology could dramatically change the way we view education and the way students learn.

Purpose

The purpose of this study was to develop and implement an Internet training program for future Media Generalists. The training program provided future K-12 Media Generalists with the technical expertise to utilize the Internet to its fullest.

Significance

"By the year 2000, there may be more high school students on the Internet than the total number of people of all ages who went online in 1993" (Strangelove, 1993, September, p.18). "The Internet is the sum total of us all, and it may well be the foundation of tomorrow's education system" (Strangelove, 1993, September p. 22).

If the Internet is to be used effectively in the classroom, teachers and Media Generalists need to have the skills necessary to lead students through the global resources of the Internet. The Internet can be quite overwhelming to the new user. Tennant (1993) reports the following:

...personal computer software is still amazingly crude, and online catalogs are still not nearly as easy to use or as helpful as one might wish. So it is with the Internet.

Much of the network access software is downright savage, and effective navigational tools are still largely nonexistent. (p. vii)

The Internet is a resource we can use to turn education into an exciting life experience. Teachers and Media Generalists must learn to change their teaching styles and techniques to include a "global" classroom. Eisenberg and Ely (1993) state that "It is essential that all schools have access to computer and networking resources...those without such resources will fall further and further behind" (p. 9). Strangelove quotes the following

from a report from the Electronic Frontier Foundation: "The Internet holds exciting potential as an engine for educational reform because it can deliver a wealth of resources to schools across the country..." (p. 22).

Nature of the Study

This action research project was to develop a set of six modules of instruction. Each module covers a different area of the Internet and contains two hours of classroom activities. The following topics are covered in the modules: introduction to the PC, introduction to networking, what is the Internet?, electronic mail, discussion groups, finding and transferring files, Telnet (remote login), Gopher, Veronica, Archie, WAIS (Wide-Area Information Servers), WWW (World Wide Web), FTP (file transfer protocol), library catalogs, copyrights, and ethics. This study was action research.

Assumptions

1. EDM537 (online database searching) is the appropriate class in which to teach Internet use.
2. Six weekly class sessions is the appropriate time frame for instruction on the Internet.
3. Instruction on the Internet should be done in a "hands on" fashion with each student having access to a computer.
4. Use of the Internet can be important to K-12 education.
5. Media Generalists need Internet education to be able to support other teachers and students.

Scope and Limitations

The majority of students in EDM537 are future Media Generalists. The class consists of 10-12 students. This small number enables giving each student personalized attention. Instruction on the Internet is done in small groups because of the availability of computers.

Students first learn the operations of an unfamiliar computer. Students use IBM compatible computers with a mouse. Education majors are not required to take a computer class, so it is possible that this is the first time students have worked on IBM compatible computers. Use of the Internet assumes some computer knowledge: language, file types, hard drive and diskette management, word processing and keyboarding skills, and mouse handling. Some of the tools that are used on the Internet can be very technically oriented. The students must know the basics of the computer before they can receive instruction on the Internet.

Macintosh versions of the software is discussed briefly, but since the equipment in the labs is limited to IBM compatibles, that is what the students use. Although the majority of the students will be using Macintosh computers when they enter the public schools, the DOS Internet skills they acquire will be easily transferable.

The Internet and its tools are all fairly new. The Internet relies on many computers. Computers occasionally malfunction, and not all the resources on the Internet are available all the time. Resources also change on a daily basis so a resource you use today may not be there tomorrow, and new ones are continually emerging.

These training modules do not go into detail about how all the Internet technology works. They also do not cover how to set up a network or how to gain access to the Internet. They concentrate more on what to do with the Internet once you get access.

Definition of Terms

Archie:

Allows you to search for software or other files that are available on the Internet. It is a searchable database that is an index of the available files on every computer that Archie has access to (Gibbs & Smith, 1993).

E-mail:

Electronic Mail; allows people to communicate with one another over telecommunication lines.

Gopher:

A menu based program that allows you to locate Internet resources without knowing their addresses.

Internet:

A global network of networks. A collection of networks that contains over a million computers and 15 million users.

Telnet:

A remote login function that allow a network user to connect to a remote computer and use it as if the local computer were a terminal of the remote machine (Tennant, 1993).

Veronica:

Searches menus of the Gophers of the world for information.

WAIS:

Wide-Area Information Servers; allows you to search for information in databases across the Internet.

Chapter 2

Literature Search

Literature Review Plan

A review of the literature was conducted through the use of database searches. The following key words and phrases were used for the searches: Internet, training, education, and K-12. Sources that were included were PALS, ERIC, ARCHIE, VERONICA, WAIS, Gopher, and Internet discussion groups.

The purpose of this literature search was three fold: to obtain some background information on the Internet, to obtain information on the need for training, and to obtain information on how the Internet is currently being used by the K-12 community.

There was an abundance of material on this subject especially online over the Internet.

The Origins of the Internet

The Internet started in 1969 as a single network called ARPANET (Advanced Research Projects Agency Network). This single network was designed by the Department of Defense to allow researchers to share hardware and software located at distant computer centers (Dyrli, 1993; Laquey, 1993; Smith and Gibbs, 1993). Gore (1993) notes that ARPANET was used primarily by a few thousand computer scientists to access computers, share computer files, and send electronic mail. The name of the network was later changed to DARPA Internet (Defense Advanced Research Projects Agency Internetwork) and later shortened to "the Internet" (Dyrli, 1993; Laquey, 1993; Smith and Gibbs, 1993).

Dyrli (1993) reports that networks developed in the 1970s and 1980s found it beneficial to connect to the Internet to share its resources. By 1990 ARPANET had been

replaced by the new National Science Foundation Network (Dyrli, 1993; Laquey, 1993).

Dyrli states that the NSFNET operates as a high-speed "backbone" for the Internet. This backbone has the ability to transmit data at a rate of 5,000 pages of text per second. Gore (1993) concludes the following:

today, scientists, engineers, teachers, students, librarians, doctors, businesspeople, and even a few members of Congress rely on the Internet and other networks to communicate with their colleagues, receive electronic journals, access bulletin boards, log onto databases, and use remote computers and other equipment....Today, the network connects not only the top research laboratories and universities but also small colleges, small businesses, libraries, and high schools throughout the country. (p. v)

Growth of the Internet

Sources seem to disagree on the number of current users and current computers on the Internet. Dyrli (1993) states that the Internet consists of over 5,000 connected networks extending to all seven continents. He also reports that between five and ten million people use the Internet directly. Smith and Gibbs (1993) report that the Internet connects about a million computers and tens of millions of users. NASA (1993) reports that the Internet consists of more than 10,000 interconnected computer networks consisting of 1.5 million computers and 10 million users. Aboba (1993) reports that "As of August 1993, more than 2 million hosts were connected on 15,000 networks in more than 60 countries, with an estimated 5 to 15 million users. The network is estimated to be doubling in users, networks, and hosts annually" (p. 103). Kaul (1993) states that in 1981 only 213 computers were hooked to the Internet and now there is an estimated two and a half million computers on the

network with 20 million users. Strangelove (1993, October) reports that the Internet connects more than 38,000 computer networks, 135 countries, and ten to twenty million people. He predicts that by 1998, 100 million people will be exchanging e-mail through the Internet.

"The Internet is the fastest growing system of human communication in history. It is growing faster than the spread of writing, faster than the emergence of the printing press, the telephone, television, or facsimile" (Bosley, 1993, p. 8). Strangelove (1993) concludes:

Soon, the Internet will take its place within the storehouse of the common knowledge of modern life. Along side other unremarkable items such as the television, telephone, facsimile, VCR and microwave oven, the mystery that is the Internet will be explained, accepted, adopted, embraced, and finally integrated into the architecture of the mundane. But for now, it's all just a little too weird. (1993, October, p. 28)

"Today, the Internet is a web of different, intercommunicating networks funded by both commercial and government organizations" (Smith and Gibbs, 1993). They also state that about 1,000 more computers join the Internet each day. Gore (1993) reports that according to some recent estimates, the amount of traffic on the Internet is increasing at a rate of 10 percent per month.

Even though sources disagree on the exact number of people and computers on the Internet, they all come to the conclusion that it is huge and growing daily.

The Internet and the K-12 Community

Hahn and Stout (1994) state the following on the importance of the Internet:

The Internet is, by far, the greatest and most significant achievement in the history of mankind. What? Am I saying that the Internet is more impressive than the pyramids?

More beautiful than Michelangelo's David? More important to mankind than the wondrous inventions of the industrial revolution? Yes, yes and yes. (p. xix)

"By the year 2000, there may be more high school students on the Internet than the total number of people of all ages who went online in 1993" (Strangelove, 1993, September, p.18). "The Internet is the sum total of us all, and it may well be the foundation of tomorrow's education system" (Strangelove, 1993, September p. 22).

Dyrli (1993) states that there are an estimated 50,000 teachers currently on the Internet and interest is increasing rapidly. He states that according to a 1993 survey published by the Bank Street College of Education in New York City, the major reasons teachers get involved with the Internet are to expand student awareness about the world, to strengthen students' inquiry-based analytical skills, to communicate with other educators, and to eliminate professional isolation.

A respondent of Al Gore's (1994) electronic town meeting asked the Vice President where he sees the Information Super Highway having the greatest impact. The Vice President responded "Schools. Classrooms. At-home learning" (p. 3).

NASA (1993) states that the Internet expands the classroom resources dramatically. "Access to these resources can yield individual and group projects, collaboration, curriculum materials, and idea sharing not found in schools without Internet access" (NASA, 1993, p. 4). NASA concludes that on the Internet class, race, ability, and disability are unseen. This makes it a natural for addressing the needs of all students. (NASA, 1993)

According to Eisenberg and Ely (1993) computer networking can change teaching and learning dramatically. "Teachers and students with access to a computer, a modem, and

phone lines are freed from the constraints of space (the physical limits of the school building) and time (the typical 8 a.m. to 3 p.m. school day)" (p.2). They go on to report that interaction through networks helps break down the communication barriers and inhibitions that stifle open exchange of ideas in the traditional classroom. "The very act of using the networks for communication, learning, and information exchange makes students more likely to succeed in the rich technological and information environment of the future" (p. 3).

Smith and Gibbs (1993) notes that the Internet is a fantastic educational resource for both students and teachers. They report that "children quickly learn how to use the Internet, and seeing a 12-year-old navigate between databases all around the world with complete confidence and knowledge is very impressive" (p. 16).

Alexander (1993) interviewed Connie Stout, director of the Texas Education Network, a state-funded computer system linking together virtually all 1,100 Texas school districts and their 7,000 schools. "It really is the beginning of a new approach to learning," says Stout. "Our teachers are saying [the network] has revitalized their teaching," she adds (Alexander, 1993, p. R17). Alexander goes on to state that this network connects Texas students with schools nationwide, enabling student groups to research the deficit, the environment and other subjects jointly. She states that students get added motivation and excitement from these projects because they have real audiences for their work. Alexander adds that teachers are also excited about the Internet. Teachers in rural schools find that the Internet gives their otherwise isolated school access to a county judge, university professor or up-to-the minute news wire. Tiny school libraries are linked to the Library of Congress and other information sources.

Alexander (1993) points out that while educators applaud the coming of networks to primary and secondary schools, researchers say only a small percentage of schools nationwide are using the technology. She reports that cost is the biggest obstacle. Hardware and software is very expensive and schools have tight budgets. Some networks also require on-line fees and telephone charges. Regardless of the expense she states that many educators are convinced the new technology is so useful that it will spread somehow.

Training Needs

Laquey (1993) notes:

if you want to stay current in the nineties, and even into the next century, you need to learn about the Internet..Whether you want to find the latest financial news, browse through library catalogs, trace your genealogy, exchange information with your colleagues, or join in lively political debate, the Internet is the tool that will take you beyond phones, faxes, and isolated computers to the real electronic information frontier. (p. vii)

Krol (1993) reports the problem of learning the Internet as simple as where do you start? He states the following:

Getting a handle on the Internet is a lot like grabbing a handful of Jello - the more firm you think your grasp is, the more oozes down your arm. You don't need to deal with Jello in this manner to eat it, you just need the right tool: a spoon....The same is true of the Internet. You don't need to be an expert in telephone lines, data communications, and network protocols for it to be useful...You just need to know how to use some tools, and to start working with them. (p. xx)

Honey's report (1993) indicates that the technologically knowledgeable computer and library media specialists are the people taking the lead for telecommunications activities, serving as resource people and facilitators for colleagues in their schools.

NASA (1993) reports:

The elementary and secondary school community of teachers, media specialists, administrators, and students is a growing population on the Internet. In general, this group of users approaches the Internet with less experience in data network technology and fewer technical and user support resources than other Internet user groups.. It is important to remember that the Internet is a volatile and changing virtual environment.
(p.2)

Fryxell (1993) quotes Paula Reinman, director of Pacific Bell's Knowledge Network Project as stating; "The students catch on in three seconds. It takes longer to train the teachers" (Fryxell, 1993, p.26).

The following is reported by Tennant (1993):

The promise of the Internet and the developing set of tools that allow us to access and navigate Internet resources also challenge us with the need for a massive training and retraining program for library and information professionals, as well as a more broadly based program for the general user community... personal computer software is still amazingly crude, and online catalogs are still not nearly as easy to use or as helpful as one might wish. So it is with the Internet. Much of the network access software is downright savage, and effective navigational tools are still largely nonexistent. (p.vii)

Kehoe (1993) identifies the largest problem that people face when they first use the network is grasping all that is available. He states that even experienced users are surprised when they discover a new feature that they didn't know existed. He concludes "once acquainted with the terminology and sufficiently comfortable with making occasional mistakes, the learning process will drastically speed up" (p. 1).

Hahn and Stout (1994) state the following:

The Internet is easy to use, but is difficult to learn...The Internet is not for nerds, but just as surely it is not for dummies: it is for those people who are willing to think and to learn...To use the Internet, you will have to expend some time and some effort.
(p. xx)

Uses of the Internet in the K-12 Classroom

Bishop (1991) tells us that the education and library communities are continuing to expand their use of electronic networks. She continues by reporting the following:

Researchers, students, librarians, and educators subscribe to electronic conferences, newsletters, and journals on a wide range of topics of concern to them in their work. They use electronic mail to communicate with remote colleagues; file transfer to acquire a variety of public domain information resources, such as software and full-text files; and remote login to access supercomputers. (p. 2)

In Strangelove's (1993, September) article he tells us that the Internet is not just a giant Nintendo game. He tells us about the following educational activities that have been done in the K-12 community over the Internet:

KIDLINK is a network project that has brought together 2,700 children from ages 10-15 in more than 31 countries. Children from around the world discuss with each other how to make the world a better place. Children in Israel used KIDLINK to tell their peers about the Gulf War while it was happening. A teacher at a middle school in Florida is using the Internet to enable her 7th-8th graders obtain information on AIDS and the HIV virus. An Ohio physics teacher has her students share their lab assignments with students in California. This physics teacher also uses the Internet to have university professors to answer questions. An Ohio Spanish teacher is having her students communicate in Spanish with native Spanish speaking students around the world. This schools library media teacher shows students how to search university libraries for resources over the Internet.

Smith and Gibbs (1993) reported that during the collapse of the Soviet Union in 1991, teenage students in California communicated with students in Moscow. They concluded that "...the educational impact on the students was immense. Rather than learning what was happening in the abstract through television news, they were talking on a daily basis with their peers in Russia who were living the events" (p. 18). . . .

The following K-12 activities are cited by David Fryxell (1993):

Fifth graders in Moscow have become friends with fifth graders in Mississippi. The National Geographic Kids Network has linked fourth through sixth-grade students in for than 10,000 classes in all 50 states and two-dozen countries to experience scientific method first hand. They weigh trash, monitor water pollution, build solar collectors, and build online friendships.

Fryxell (1993) goes on to explain The National Geographic Kids Network. This network teams geographically dispersed classrooms to do experiments about solar energy, acid rain, weather, nutrition and recycling. This program's goal is to teach kids the scientific method. George Peterson, director of educational media for the National Geographic Society states, "It brings thousands of students together, working as real scientists do - asking questions, developing hypotheses, collecting information and drawing conclusions from data that are all their own" (p. 27). According to Fryxell, in a high school in Brea, California, students have tapped the CIA World Factbook for up-to-date geography lessons, logged onto the Cleveland Freenet, and linked up to the Jet Propulsion Laboratory. English classes have collaborated with other schools in online storywriting.

Making Connections article (1993) explores how elementary students in Maryland are using the Internet with the following activities:

These young students compare customs in different lands including Tasmania, Peru, England, and Iceland. Fifth graders learned the metric system on the Internet when they compared heights and weights with students from around the world. The middle school in Oak, California is 45 minutes away from the nearest library. With the Internet this school is able to get resources and communicate with students from around the world. A middle school teacher tells us that many of the students can't even afford to travel out of the area, but they know what kids from around the world are thinking. High school students in Raleigh, North Carolina have given advice to Russian business students on how to prepare for, open, and operate a small business. The Making Connections article (1993) states that there's little money for field trips at

E.M. Pease Middle School in San Antonio, Texas, so science teacher Linda Maston figures, "If I can't take kids out to the world, I have to bring the world in to them" (Making Connections, 1993). According to the author, students do science experiments and compare results with students from around the world. For the students at the Florida School for the Deaf and the Blind the Internet means access to the world. John-Mark Leach, Computer Resource Coordinator, explains, "With telecommunications, blind children have the same access to information as their sighted peers. The newest information is always in print, and blind students usually have to rely on someone else to read it to them. Telecommunications changes this limitation" (Making Connections, 1993, p. 36). The students use speech synthesizers or a Braille printer to obtain the information.

Lee Bloomquist's (1993) article is about a high school in Virginia, Minnesota. In the Virginia High School, German students are communicating to other students in Germany. Instead of mailing a letter, which may take seven days to get to Germany, the Internet delivers the students messages in seconds. Becky Waterhouse, German instructor states "The classic problem in teaching a language is that as the years go by interest wanes. But with this, the turnaround time for the messages is minutes" (p.2B). A Virginia German student says they were just learning the basics before, but now they are communicating with real German people.

NASA (1993) gives the following examples of Internet classroom activities:

Internet poetry contest from around the world, collect data on monarch butterflies and send to a national point, participate in a national simulated space shuttle mission, or participate in worldwide math and science experiments. (pp. 31-35)

Dangers of the Internet to the K-12 Community

"The Internet is not a sterile playground, amusement park or library, but a complex, multi-cultural world that includes international industrial spies, common garden-variety hackers, hate mongers, binary pornography, subversive political literature, and 'illegal' information concerning explosives, firearms, and the great satan of the 90's--drugs" (Strangelove, 1993, September p. 21). Strangelove continues by reporting that the legal liability question of providing Internet access will have to be answered. The Internet can deliver a wealth of resources, allow sharing between schools, and foster intellectual curiosity, but the lack of a well defined legal framework has created uncertainty among some.

Schwartz (1993) reports:

Genevieve Kazdin, a self-appointed crossing guard on the information highway, remembered the day last September when she found an eight year-old girl attempting computer conversations with a group of transvestites. Seemingly safe at home, the child was playing with her favorite \$2,000 toy, using her computer and modem to make new friends through a service called America Online. The name of the electronic discussion group the girl had discovered was called, confusingly enough, 'TV chat' -- the TV being shorthand for transvestite. Kazdin said the girl had read it differently: 'She was thinking in all innocence, "We're going to talk about Barney"'.
(p. 2)

Schwartz continues by stating that users are exposed to an astonishing variety of information, including some of the raunchier aspects of human life. Schwartz gives the following examples of possible perils to children on the net: cybersex - sexually explicit fantasy

scenarios back and forth, downloaded erotic-photos to display on computer screens, discussions about bomb-making, and how to steal credit card numbers.

NASA (1993) states that there are files on the Internet that parents would not like their children to get and if the school has full Internet access these students technically can not be kept from accessing this objectionable material. NASA continues by reporting that schools should develop clear policies to guide the students on use of the Internet. The only way to have control is to limit some access. NASA states "You will have to decide whether it is worth limiting access to ensure a measure of technical control. Some find that it is well worth it and others do not" (p. 12).

Viruses are another security problem when you use the Internet. NASA (1993) reports that it is not a problem when you exchange data, but only when you download a computer program and run it on your computer are you in danger. Any program you download could have a virus. NASA states that all computers should have virus protection software.

Caruso (1993) found some additional difficulties with the Internet. She states that trying to take advantage of today's information services is likely to be disappointing. She adds that frustrations such as slowness, lack of participation, technical difficulty, cost, software bugs, and the possibility of losing an entire file can make the Internet less than desirable. Caruso also states that people change their habits slowly.

Summary

This chapter presented a review of the current literature on three areas of the Internet: background information, training needs information, and information on the Internet and the K-12 community.

The sources are in agreement as to how and when the Internet started. They do not agree as to how large it is or how fast it is growing. Sources also agree that training is needed to learn the tools of the Internet. Sources indicate that the Internet is already being used in some classrooms very extensively and effectively. Some sources state that there are some dangers to K-12 students on the Internet, but all sources agree that the Internet can play a major role in our education system. "The Internet is the sum total of us all, and it may well be the foundation of tomorrow's education system" (Strangelove, 1993, September p. 22).

Chapter 3

Procedure

The population for this study is EDM537 students (future Media Generalists) at The College of St. Scholastica, Duluth, Minnesota. Most of the students are either secondary or elementary education majors with an educational media licensure. The technical experience and skills vary among students. Instruction for the first part of the Spring quarter is concentrated on the Internet. The last part of the quarter consists of instruction on the Dialog search service.

Each of the students have a computer to use during the class sessions. The computer labs are also available to them at other times. Each student has his/her own Internet login ID.

The classes meet once a week for 3 hours for 10 weeks. The first six weeks are dedicated to the Internet and electronic mail. The last four sessions are dedicated to the Dialog search service. The course is team-taught by Dr. Margaret Scheibe and me. The Internet class sessions consist of presentations, demonstrations, videos, hands on exercises, group exercises, and discussion.

The initial introduction is informal with each student becoming comfortable with the IBM compatible computer. Students learn diskette and file handling, printing, and logging onto The College of St. Scholastica networks. After the students have an understanding of the basics of the computer, they then start with instruction on the Internet.

Please refer to Appendix A for the course syllabus. Requirements for the course will be: a weekly journal, current research reviews, class team projects, designing learning

experiences, and designing lesson plans. Students will read their Internet mail every class. i will be sending and forwarding them relevant mail.

The first module of instruction (see Appendix B) covers IBM computer basics, introduction to networking, definition of the Internet, what is available on the Internet, how to find e-mail addresses, discussion groups, Telnet, talk, capture, levels of Internet access, completing a Macintosh computer tutorial, and viewing a video done by U.S. West.

The second module of instruction (see Appendix C) covers WAIS, WWW, Gopher, Veronica, Archie, file types, software types, and viewing a video done by NASA.

The third module of instruction (see Appendix D) contains finding and transferring files, FTP, commercial providers, America Online, Prodigy, Compuserve, and viewing a video from Prodigy. Demo accounts and a modem is set up in the labs so students can have hands on experience with these services.

The fourth module of instruction (see Appendix E) covers other resources on the Internet, library catalogs, graphic images, Internet hunts, funding, grants, and viewing a video on technology for education.

The fifth module (see Appendix F) contains policies, plans, ethics, copyrights, dangers, games, and viewing a video about copyrights on software. Students will also start sharing their learning experiences. Please see Appendix A for course syllabus.

The sixth module (see Appendix G) brings all the information from the quarter together. Students share their learning experiences and lesson plans with each other.

Chapter 4

Summary

The purpose of this project was to prepare six modules of instruction on the introduction to the Internet for students in EDM437/537. A search of the literature was done and this information was used as a guide in writing the instruction modules. The modules consist of videos, lesson notes, transparencies, example software, and exercises. Six weekly classes were taught using these modules of instruction.

Conclusions

Participants

There were 11 students in the class. Four students were student teaching, three were employed as media generalists in schools, one was a school principal, one was a St. Scholastica faculty member, and two were St. Scholastica staff members. Although the students had a variety of backgrounds, they all had one thing in common; an interest in education and how the Internet can be used in education.

Students in this class had a wide variety of computer expertise. Some had never seen an IBM compatible computer before, while others had spent years on one. Although it would have made the class go smoother if all students had had computer experience, it posed few problems.

Technical Problems

The biggest problem on the first two sessions was logging onto the two St. Scholastica computer networks. It was confusing to students to have two login IDs and passwords, but

after a few weeks they picked up on it. They began to realize that if they wanted to print on the laser printers they needed to log into the local area network before they used the Internet.

We only encountered hardware problems one night. The Internet server was overloaded and it made the students' computers freeze. It was easily corrected by simply rebooting the computers, but irritated the students. The other technical problem that we encountered was students' diskettes becoming full. The software and image files that were downloaded were large and students' disks would fill quickly. If I teach this class again I will require the students to purchase four high density three and a half inch disks rather than just two.

Techniques

Some of my techniques changed during the teaching of the six modules of instruction. I started out using transparencies, but found them clumsy because I would have to remove the LCD display before I could use the overhead. I then started to create GIF (graphical interchange format) files and used a gif viewer along with network broadcast software. This would allow me to make my slides appear on the computer in front of the students. The students seemed to respond to this method better. I then started using different software (Harvard Graphics for Windows) that allowed me to create slide shows so I didn't have to use a gif viewer. This was the most convenient method and the students responded very well. It seemed to personalize the instruction when the students were able to view the slide on the screen in front of them.

The students also responded very well to the method of having the search demonstrated to them before they did it themselves. I would again use the network broadcast

software that would project my screen onto every student's computer. They were able to see exactly what I was typing right in front of them. I demonstrated the search step-by-step so there were no surprises when they did the search. I felt that this again personalized the instruction.

After my "lecture" I would give the students a step-by-step guide to search for a specific item. The experienced computer users took these guides and immediately dove into the Internet. On just the second night there were three users already retrieving lesson plans from Cleveland and searching for jobs around the world. The beginning computer users needed a little coaxing and coaching. All students seemed to get a sense of accomplishment when they completed the searches. I tried to make the searches like searching for treasures. I tried to have them find things that they could take with them and use. It was wonderful to see the smiles on their faces when they would retrieve something from a far away place and use it on the computer in front of them.

Students grasped the POPMAIL software quickly and would come to class early just to read their Internet mail. I had the students join an e-mail discussion group. This created a lot of mail for them to read. The students that didn't have access to the Internet throughout the week were a little overwhelmed with mail, but the students that read their mail during the week seemed to enjoy it.

Students preferred the menu driven Gopher. This seemed to be the tool of choice for the beginning computer users. They felt comfortable with the menus and liked not having to know technical language. The more experienced computers users attempted Archie and FTP, but also seemed to prefer a menu-driven search tool.

I had an advantage teaching in this computer lab because I knew the technology very well. I knew how to use the network broadcast software, the Internet capture and print, and other network capabilities. I felt extremely comfortable with teaching in this room.

Time

It was difficult to teach this class just one night a week. The students that didn't have access to the Internet during the week were at a disadvantage. They would forget some things from one week to the next. One class a week just didn't seem like enough time for them to develop and retain the skills that they needed. Students commented that they would have liked the class more than just one night a week. The ideal situation would be to teach this class three days a week for shorter time periods. I think the students would then retain more. Although I was able to cover all the topics that I planned, I wasn't able to go into the depth that I would have liked. There just wasn't enough time. This class made it clear that every minute should be spent having the students in front of computers. I don't believe a lecture - lab type setting would work.

Hahn and Stout (1994) state the following:

The Internet is easy to use, but is difficult to learn... The Internet is not for nerds, but just as surely it is not for dummies: it is for those people who are willing to think and to learn... To use the Internet, you will have to expend some time and some effort.

(p. xx)

General observations

The students always seemed interested and full of questions. Even on the first night the students had questions with the main one being; how can I connect to the St. Scholastica

computer from my home or my school. I spent time with each individual that was interested in this. Three students were successful in using their computers from their homes or schools to connect to the Internet through the St. Scholastica computer. These students would communicate through e-mail with me often. They did searching and exploring on their own and became very experienced Internet navigators by taking what we covered each week and testing and experimenting with it. One commented that she didn't seem to get any other work done because she found herself on the Internet until late at night.

Students in EDM437/537 seemed to have enthusiasm that I have not seen in other classes. They were excited to use the Internet and very interested in ways the Internet could effect them directly. Students would come to class early and stay late to use the computers. It would not be uncommon for me to stay an hour after class helping students navigate the Internet. I found this remarkable for a night class because usually students come to the class after teaching and working all day. They are tired and usually ready to go home immediately after class. I enjoyed teaching this class more than any other that I have ever taught. I think the following quote from Hahn and Stout (1994) sums up my feelings on the importance of the Internet:

The Internet is, by far, the greatest and most significant achievement in the history of mankind. What? Am I saying that the Internet is more impressive than the pyramids? More beautiful than Michelangelo's David? More important to mankind than the wondrous inventions of the industrial revolution? Yes, yes and yes. (p. xix)

Implications for Future Study

This project can be used by teachers and media generalists for ideas on Internet instruction. These ideas can be integrated into their classroom regardless of the subject area being taught. Since the Internet is always changing, each module will have to be evaluated before its use. Parts of these modules will be used to develop a 10 hour workshop for K-12 teachers on the Internet.

Following are further research possibilities:

1. Extend this project to include a technical module on how to get connected to the Internet.
2. What impact does it have on the student to have access to the Internet outside of class?
(At home or at work)
3. Do students retain more technical knowledge when they have the class three days a week rather than one night a week?
4. Conduct a follow up survey on the students to see if the class helped them in using the Internet when they got a job.
5. Conduct a penpal type match up with existing media generalists and students of EDM437/537.
6. Conduct a penpal type match up with other media students from other media programs around the world.
7. Work with teachers of other education courses to integrate the use of the Internet in their classes. (Methods, Teaching Science, etc.)

Appendix A
Course Syllabus

THE COLLEGE OF ST. SCHOLASTICA
Duluth, Minnesota

ONLINE DATABASE SEARCHING
EDM 437/537
Spring 1994
SYLLABUS

INSTRUCTORS: Dr. Margaret Scheibe
Diana Johnson
OFFICE: Tower 4104
PHONE: 723-6600
OFFICE HOURS: Monday 8:00-9:00P, Tues.& Thurs. 12:30-1:30P, by appointment.

CREDITS: Three graduate/undergraduate credits

Required Materials:

Lathrop, A. (1989). Online and CD-ROM Databases in School Libraries. Englewood, Colorado: Libraries Unlimited.

Gibbs, M & R. Smith. (1993). Navigating the Internet. Indianapolis: Sams Publishing.

DIALOG Lab Workbook: Online Searching for the Information Professional & Searching Dialog: The Tutorial Guide. Arlington, Va: DIALOG Services, Inc.

Two 3 1/2 inch DS HD diskettes (available at the bookstore)

GOALS:

The course, EDM 437/537, meets the following outcomes for licensure as a Media Generalist in the State of Minnesota:

1. relate the role of media to curriculum development [A5.]
2. discover factors that influence media service and determine their impact. [A7.]
3. examine the relationship of media programs to curriculum development, to emerging technology. [A10.]
4. assess and appraise user needs and interests, existing resources, and projected changes. [C1.]
5. synthesize and convey to media center personnel and users recent educational, technological, and legal developments and trends which affect media programs. [C13.]
6. recognize the levels, formats, and types of media required in designing materials to meet stated curricular objectives. [D2.]
7. identify emerging technologies and the skills which will be needed for their use. [D4.]
8. determine media and technology appropriate for educational programs. [E1.]
9. use reference sources, print and non-print, to meet information needs of students, faculty, and administration. [E4.]
10. expand the resources of the media center by knowledge and utilization of external networking opportunities. [E9.]
11. work with programmed materials, information storage and retrieval systems, computer-assisted instruction, telecommunication, and other emerging trends. [E11.]

12. teach students reserch methods and skills as a foundation for life-long learning. [E14.]
13. recognize the importance of technological advancement to the educational process. [F1.]
14. apply an understanding of the basic concepts, terminology, and application of emerging technology. [F2.]
15. recognize curricular implication that result from emerging technology and educational trends. [F3.]
16. provide leadership in incorporating innovations into education. [F4.]
17. identify sources of information related to technological advancements. [F5.]
18. provide technical advice and service for educational access to technology. [F6.]

COURSE DESCRIPTION:

This course will provide students with the basic knowledge necessary to conduct computer searches and to administer computer literature searches in public school media centers. Focus is on the search process in the public schools and the integration of database searching in the school curriculum. Additional emphasis is on the teaching of searching as a skill in the public schools. Computer literature search vendors and the Internet will be introduced. Online computer time will be utilized by the students.

REQUIREMENTS

1. Weekly Journal:

Reactions to class discussions, reviews and critiques of articles and readings assigned, and reactions to class presentations and guest presenters should be kept in a loose leaf notebook which I may collect at any time in the quarter. The journal must clearly show reflective thinking on the class discussion, material, and presentation and should include connections to the self as an active practitioner.

2. Current research reviews.

You will be expected to review and critique five journal articles that relate to the Internet or online database searching. Each article must be from an academic source and must be of significant depth and breadth. Please reflect on the application of the information in each article to the content and intent of this course.

3. Team Lab projects:

Team Lab project will be assigned throughout the quarter in class. These are team projects and will require working with a partner. You will choose your class partner the first evening. While some class time will be assigned to work on the projects, you will need to plan on additional time outside of class to adequately complete these assignments. Please be prepared to do that. You will be expected to evaluate your partner and that evaluation will be factored into the final course grade.

4. Design learning experiences:

Design learning experiences relating to online database searching or the Internet that can be integrated into the curriculum. Design instruction

sheets, activity sheets, examples, and answer sheets for each experience. Follow the example given in class.

- * You are required to do **three**.
- * **One** will be presented to the class. You will be expected make a copy for each student in the class. These will be distributed on the day you make your presentation.

5. LATE PROJECTS WILL NOT BE ACCEPTED UNLESS THE STUDENT HAS RECEIVED PRIOR APPROVAL FROM THE INSTRUCTORS.

EVALUATION:

Grades will be determined by the following point system:

Weekly Journal	50 points
Research Article Reviews	50 points
Class Searches	50 points
Learning Experiences	60 points
Total Points	210 points

Grades:

Undergraduate:

A = 193-210 points

B = 173-192 points

C = 151-172 points

D = 130-150 points

F = 129 points and below

Graduate:

A = 195-210

B = 177-194

C = 156-176

D = 138-155

F = 137 points and below

INCOMPLETES ARE NOT AVAILABLE FOR THIS COURSE. STUDENTS WILL BE ASSIGNED GRADES BASED ON THE QUANTITY AND QUALITY OF WORK COMPLETED BY THE DATE OF THE FINAL EXAM. NO WORK WILL BE ACCEPTED AFTER THE FINAL EXAM.

BEST COPY AVAILABLE

**EDM 437/537 ONLINE DATABASE SEARCHING
SPRING 1994**

Day:	Tuesday	Instructors:	Scheibe, Johnson
Time:	5:15 - 7:40	Phone:	723-6600
Room:	T2420	Office:	T4104
		Office hours:	TBA

Internet addresses: mscheibe@css1.css.edu
djohnson@css1.css.edu

March 8 - Introduction/ Housekeeping

Topics: introduction, housekeeping, general information. Introduction to the computer and computing at CSS, electronic mail, samples of what we will do.

Assignment: CSS Network ID request form
Reading and sending mail
Popmail handout

March 15 - Introduction to the Internet

Topics: More on the PC, introduction to networking, what is the Internet?, what is available, how to find e-mail addresses, discussion groups, Telnet, talk, capture, levels of Internet access.

View in class: Video - US West - Accessing the Internet
Tutorial in class: Macintosh - Internet Cruise

Assignment: Reading and sending mail
Telnet sessions
Gibbs - Chapters 1 - 3, 5 and 13
Lathrop - parts 4 & 5
Read your Internet mail

March 22 - Searching software on the Internet

Topics: WAIS, WWW, Gopher, Veronica, Archie, file types, software types.
View in class: Video - NASA - Global Quest: The Internet in the Classroom

Assignment: Class activities
Internet searching for treasures
Gibbs - Chapters 7 - 9
Lathrop - part 6
First research article due-10 pts.
Team search - 10 pts.
Read your Internet mail

March 29 - More searching software on the Internet

Topics: finding and transferring files, FTP, commercial providers, America Online, Prodigy, Compuserve.
View in class: Video - Prodigy - New Connections

Assignment: Class activities
Internet searching for treasures
Gibbs - Chapters 4 and 6
Lathrop - part 7

Team search - 10 pts
Collaborative classroom project with Cedar Creek
Elementary School in St. Francis, MN
Read your Internet mail

April 5 - Other resources on the Internet

Topics: Library catalogs, graphic images, Internet hunts, funding and grants.
View in class: Video - Experience the Power: Network Technology for Educat.

Assignment: Class activities

Gibbs - Appendix A
Lathrop - part 8
Second research article due-10 pts.
Read your Internet mail - Cedar Creek Elementary School
Work on learning experiences

April 12 - Policies and ethics on the Internet

Topics: policies, plans, ethics, copyrights, dangers, games, share learning experiences.

View in class: Video - Don't copy that floppy

Assignment: Class activities

Gibbs - Chapter 11
Read your Internet mail
Work on learning experiences

April 19 - Dialog searching

Topics: logical operators, proximity operators, Dialog commands, choosing the right database.

Assignment: Class searching

Assigned reading from Dialog text
Lathrop - part 2
Team search - 10 pts.
Read your Internet mail
First learning experience due-20 pts.

April 26 - Networking and Dialog

Topics: Popmail, basics of online searching. Different types of databases, planning the search, search worksheets, class activities, truncation, logical operators, thesauruses.

Assignment:

Class searching
Assigned reading from Dialog Text
Lathrop - part 1
Team Search - 10 pts.
Third research article due-10 pts.

May 3 - Advanced Dialog searching, CD-ROM

Topics: Advanced searching techniques, CD-ROM.

Assignment: Class searching

Assigned reading from Dialog text
Lathrop - part 3

Team search - 10 pts.
Second learning experience due-20 pts.
Read your Internet mail

May 10 - Learning experiences and lesson plans

Topics: Group learning experiences and treasure hunts.

Assignment: Class activities

Gibbs - Appendix E

Fourth research article due-10 pts.

Final learning experience due - bring copies for everyone
in class-20 pts.

Read your Internet mail

Learning experience presentations

Final Exam - Date and time to be announced

Fifth research article due-10 pts.

Weekly journal due-50 pts.

Appendix B
Module of Instruction #1

Module #1

Introduction / Housekeeping

Introduction, housekeeping, general info, introduction to the computer and computing at CSS, electronic mail, samples of what we will do.

Assignments: CSS Network ID request forms - Novell and Unix
Reading and sending mail
POPMAIL Handout

Housekeeping

Materials -

Samples of what we will do - programs, transparencies, sheets
syllabus (copies)
Texts
Lab hour sheets (copies)
Lab brochures (copies)
Survey sheet (copies)

Introductions - me, Maggie, students

Survey students - How many elementary ed majors - How many secondary ed majors (what subject) - others - What do they want to learn in this class -
Hand out **written survey** - return at end of class

Go over **syllabus** - office hours

Show texts

Note about text: - Skip technical stuff - was difficult to find text

Labs at CSS - pass out **lab hour sheets** and **brochures**

Transparency examples of what we will do

Program examples - Gif viewer - educational games

Intro to computers at CSS

Materials:

- 5 1/4" diskette
- 5 1/4" diskette - cut
- 3 1/2" diskette
- 3 1/2" diskette - cut
- 5 1/4" disk drive
- 3 1/2" disk drive
- hard drive
- diskette labels
- write protect labels
- Network request forms (Novell and Unix) (copies)
- CSS Computer Code of Ethics (copies)
- Parts of Computer Handouts (copies)
- Diskette Care Sheet Handout (copies)
- Read Write Head transparency
- Screwdriver
- samples of programs - Smithsonian - NASA
- Laser printer samples - Dot matrix samples
- Dir transparency
- Network IDs - already created - Novell and Unix
- Extra 3 1/2" and 5 1/4" diskettes - one for every student

DOS vs MAC -

Parts of a computer - **Handouts**

Drives - A - B - C

Diskettes - 2 different sizes - 4 different types - **cut diskettes**

Capacity - 3 1/2" - 1.4MB, 720K

5 1/4" - 1.2MB, 360K

Diskette care sheet handouts

Hard Drive - internal - capacity - 20MB - 1 gig

Diskette labels - Write protect tabs - write protecting 3 1/2"

Disk Drives and diskettes - show how they work - how to insert a disk

Transparency of read/write head dust particle

When red/green light is on do not remove diskette!

Open computer

take apart printer

Power buttons - turn on computer and monitor

Reset button - warm boot - cold boot

Keyboard - mouse

Handout diskettes - 3 1/2" and 5 1/4"

DOS Prompt

Default drive - changing a: b: c:

Networks - LANS and WANS

Networks at CSS - there are two -

Local Novell - what is it used for? - printers - lasers - DOT matrix vs. las - samples

Internet - UNIX - what is it used for?

If you want to use a laser printer you must log into the Novell network

You will need two passwords - one for each network

Fill out **ID request forms** and pass out **IDs** - Novell and UNIX

Go over **Computer Code of Ethics** sheets

Logging onto the networks

Novell

Unix

Changing passwords - have them change both passwords right away

Novell - setpass

UNIX - Passwd

Change to the same password

Samples of what we will do.

Smithsonian gift viewer - using exac

Weather maps

NASA pictures

Formatting a disk - what does formatting do?

DIR - DIR /P

Filenames - transparency of DIR

Directories - CD RD MD
Current directory

Deleting files

Electronic Mail

Materials -

POPMAIL HANDOUT

Extra 3 1/2 " diskettes and labels

Most widely used Internet service

Text states that each day around 25 million people send each other messages.

Most messages are just text, but you can send programs and pictures.

Client-Server programs - make electronic mail more user friendly - POPMAIL
Written by the University of MN

Printing mail - if you want to print using this program - must first log into Local network
Can only print from Teagle computers otherwise you must use WP - will go over WP
another week
Choose #1 and log in
Press C: and enter
Type cd\menu and enter
Type menu and enter

EXAC - show mail without popmail to everyone first

EXAC - Show mail using popmail to everyone

You need a 3 1/2" diskette to use popmail in the labs
Insert your 3 1/2" diskette

NOTE: your mail is put on this disk - always use the same diskette for popmail -
Pass out labels - Label the diskette popmail
Please give me a new diskette next week to replace this one

POPMAIL is an option on your menu - choose #6

Mouse use

POPMAIL handout - e-mail parts - headers -go over parts

e-mail addresses

Domain names - highest level
EDU Education

MIL Military
GOV Nonmilitary governmental
COM Commercial
NET Special network machines
ORG Other organizations
UK United Kingdom
CA Canada
AU Australia

Subdomains are names of institutions and departments within those institutions
Example - CSS1.CSS.EDU - computer called CSS1 at CSS and educational
BIGBOPPER.CIS.CSS.EDU - computer called bigbopper in the
CIS department at CSS

Computers' names are sometimes colorful like - Maroon - main U
Coyote, cadilac

Username - no real pattern - can be numbers or letters
djohnson@css1.css.edu - this is your full e-mail address - write yours down
75600.1002@compuserve.com
Troys address at St. Francis Elementary is 0015cceL@TIES.K12.MN.US

Look at what is on your diskette -
B: - DIR

Discussion groups and Listservs

Materials -

- Book on list of discussion groups
- Textbook - discussion groups in back
- Listserv commands transparency

Allow people with common interests to have group discussions

A list for every interest - MEMO - Librarians, Media people, Billy Idol, Star Trek, Pets, Rolling Stones.

Allows you to send a message to the Listserv - that computer then sends the message to everyone in the group - they can then respond back to you personally or to the entire group.

Example - my question about printer in labs - got 30 responses - UK, Australia, all the US.

Subscribing - Always subscribe to the LISTSERV not to the group - whatever messages you send to the group will go to everyone.

The Listserv will notify you of your subscription

Just spend time reading the messages before you reply to get a feel for the group.

Be careful about the content of your reply - depends on the group - some are cruel

Moderated or Unmoderated -

Unmoderated - accepts and distributes all e-mail from anyone registered - you deal with a machine - no person

Moderated - human filters messages to make sure they are appropriate

EXAC - CTRL-ALT-M and CTRL - enter

K:\gifview\vpic

Mark slide #1-6

Listserv commands - Slide #1

SUBSCRIBE

SIGNOFF

SET - alter your options

MAIL - NOMAIL - can suspend mail like in summer

DIGESTS / INDEX - all messages in one or just index

Can search a Listservs archived messages -

College of St. Scholastica

Computer Code of Ethics

As an academic community organized for the purpose of teaching, learning, and research, we the members of that community have responsibilities toward each other regarding computer use as well as toward the computing community outside the College. Respect for intellectual property, privacy of data, integrity of equipment, and in general, recognition of the rights of others is of central importance. Each of us has rights to the use of computing resources and to privacy in our personal work, and each of us depends on everyone else to conduct themselves responsibly.

1. Respect for Intellectual Property:

It is the College's policy to adhere strictly to the letter and spirit of copyright laws and regulations, including software licensing agreements. Only authorized copying of files or programs or program utilization are ethical and legal.

2. Privacy:

Database and other computerized information that is either in administrative computers or those of faculty or students is private and must only be accessed or disseminated by or with the permission of the owner or person in charge. Any other accessing, dissemination or tampering is illegal or unethical. Network resources, electronic mail, bulletin board software and all other computing resources are included in this category; inappropriate, rude, malicious or harassing language or activities are also precluded.

3. College Equipment:

College computing equipment should be handled with the care due to sensitive, expensive, scarce resources. College personnel should be notified whenever the equipment, including software, fails to function normally.

Violation of this Computing Code of Ethics may subject the offender to disciplinary action through the existing structures for faculty, staff and students of the College.

Novell Network continued

RM Cobol
HyperGraphics
Paradox 4.0
Derive
SPSS
Minitab
HIA Software - Medicus, Code 3, Code Finder

Laser Printers

Are Available To All Networked Computers.
Laser Printers Are Located In The Main
Computer Lab (Tower Hall).

Software Available On Diskette

At Computer Labs Located In Tower:

Typing Tutor	MedRec II Demo (HIA Students)
Chemistry Study Disks	Spanish/French Language Disks
Print Master	

Eligible CSS Computer Lab User:

Any User Must Have A Current CSS ID Card And Must Be One Of The Following:

- 1) A College Of St. Scholastica Student.
- 2) A College Of St. Scholastica Faculty Member.
- 3) A College Of St. Scholastica Staff Member.

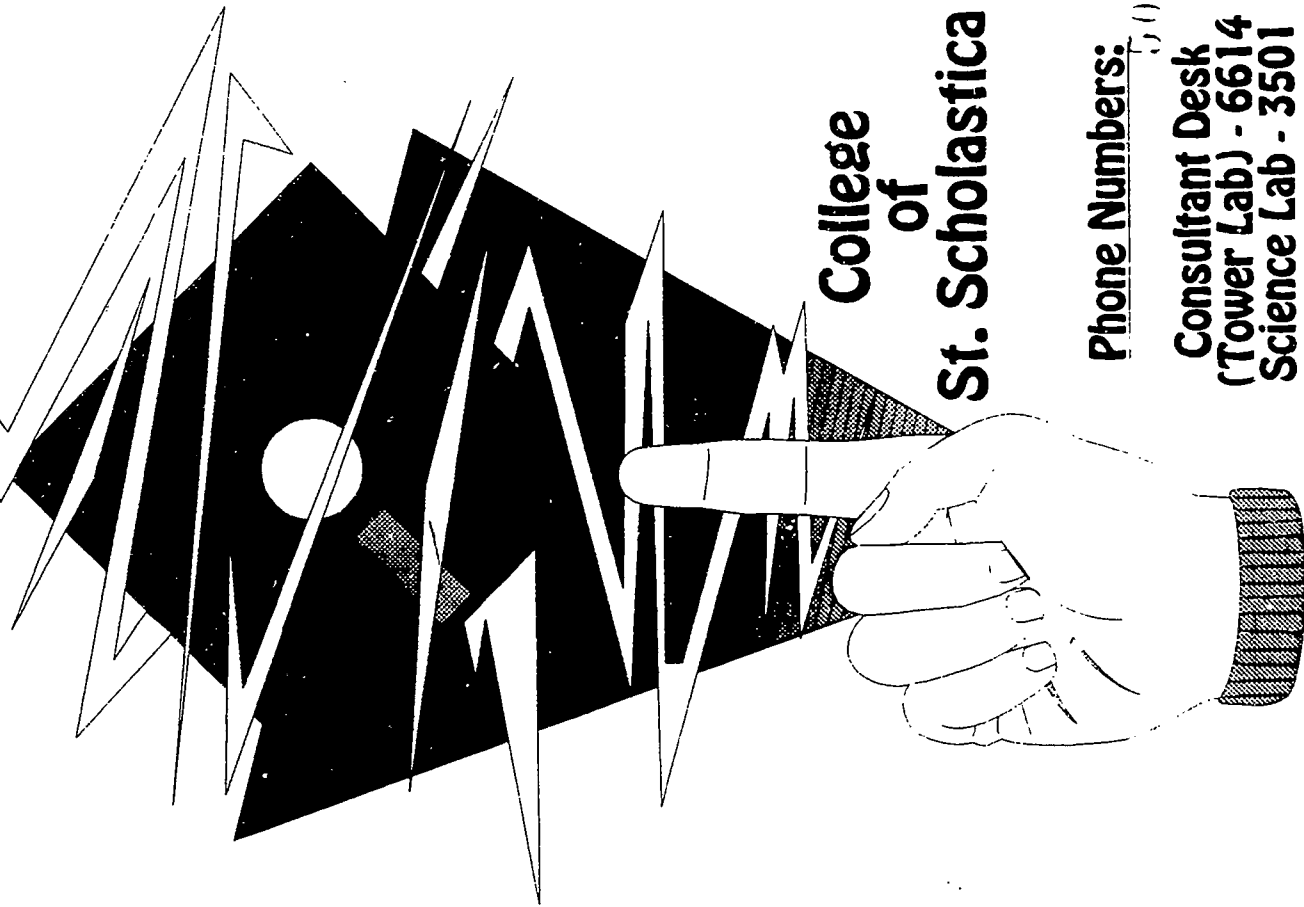
Telnet Address: CSS1.CSS.EDU

There Is Now A Dot Matrix Printer Connected To The Unix System. Check out the one page instruction sheet available.

Computer consultants are on duty all hours the labs are open.

* Computer labs are supported by the Information Services Department.

Computer Labs



Phone Numbers:

Consultant Desk
(Tower Lab) - 6614
Science Lab - 3501

Micro Lab - Tower 2410

21 Computers IBM Compatible - Novell Network
1 Macintosh Centris 610 (WordPerfect, PageMaker, Gopher)

Also Available:

Windows 3.1
SQL For Windows
Excelerator For Windows
Nutrition
Text Magnification
Corel Draw (CD-ROM and Hard Drive)
3 CD-ROM Systems - Laser Library
PageMaker 4.0
Tractsil - HIA Students
Object Vision Resume Writer
Telnet
Gopher

Dot Matrix Printers Are Available (IBM Compatible)

Teagle Lab - Tower 2420

24 Computers IBM Compatible - Novell Network

Also Available:
Windows 3.1
Telnet
Gopher

Apple Lab - Tower 2415

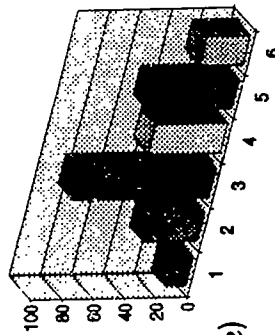
11 Apple IIe's, 1 IIGS Dot Matrix Printing

Software Available at TA Desk
Appleworks
Language Programs
Print Shop
Educational Software

Systems Lab - Tower 2411

IBM AS/400
10 Computers IBM Compatible - Novell Network

Also Available:
Windows 3.1
SQL For Windows



Systems Lab - Tower 2411 continued

Telnet
Gopher

Dot Matrix Printers Available (IBM Compatible)

Library

10 Computers IBM Compatible - Novell Network

Also Available:
Windows 3.1
Telnet
Gopher

Software on Diskette:
Spanish (BLC's)

Dot Matrix Printers Available (IBM Compatible)

Science Lab - S175

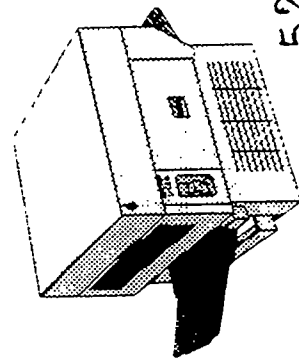
4 Computers IBM Compatible - Novell Network

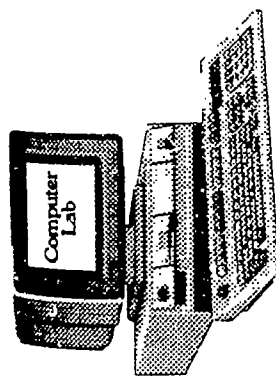
Also Available:
Windows 3.1
Telnet
Gopher

Dot Matrix Printers Available (IBM Compatible)

Novell Network

Software Available:
WordPerfect 5.1
WordPerfect 5.2 for Windows
WordPerfect Office Mail
Grammatic IV
Grammatic V (Windows Version)
dBASE IV (Student Version)
Quattro Pro (Dos Version)
Quattro Pro (Windows Version)
Turbo C
Turbo C++ (Windows Version)
TC Print





1993-1994 SPECIAL LAB HOURS TOWER & SCIENCE COMPUTER LABS

Tower 2110, 2411, 2415, 2420
Science 175

FALL QUARTER:

Nov. 20-21 Closed
Nov. 22-24 Open 8:00a.m. - 4:00p.m.
Nov. 25-28 Closed

WINTER QUARTER:

Dec. 18-19 Closed
Dec. 20-23 Open 8:00a.m. - 4:00p.m.
Dec. 24-27 Closed
Dec. 28-29 Open 8:00a.m. - 4:00p.m.
Dec. 30 Open 8:00a.m. - Noon
Dec. 31 Closed

Jan. 1-2 Closed
Jan. 17 Closed

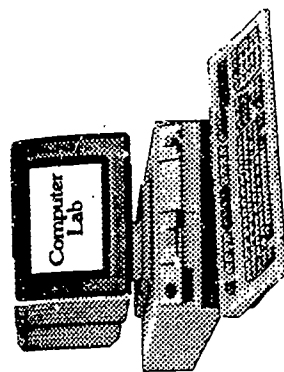
Feb. 26-27 Closed
Feb. 28 Open 8:00a.m. - 4:00p.m.

Mar. 1-4 Open 8:00a.m. - 4:00p.m.
Mar. 5-6 Closed

SPRING QUARTER:

Mar. 30-31 Open 8:00a.m. - 4:00p.m.
Apr. 1-3 Closed

50



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Dec. 31 Closed

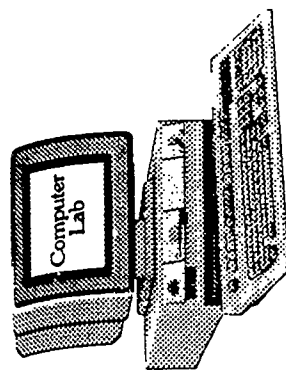
Jan. 1-2 Closed
Jan. 17 Closed

Feb. 26-27 Closed
Feb. 28 Open 8:00a.m. - 4:00p.m.

Mar. 1-4 Open 8:00a.m. - 4:00p.m.
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54

**College Of St.
Scholastica
Computer Lab Hours**

Tower Computer Lab
Tower 2110, 2411, 2415, 2420

Regular Hours:

Mon. - Thurs. 8:00a.m. - Midnight
Friday 8:00a.m. - 5:00p.m.
Saturday 9:00a.m. - 5:00p.m.
Sunday 2:00p.m. - 10:00p.m.

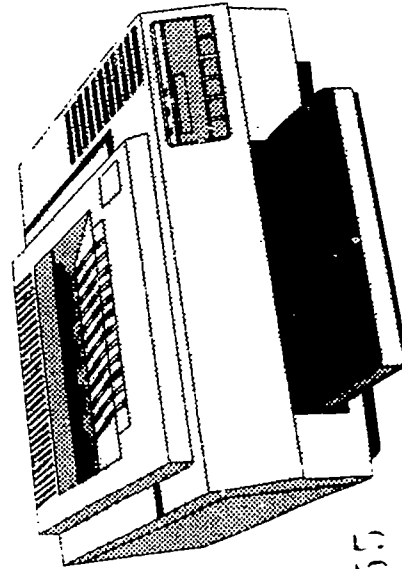
Science Computer Lab
Science 175

Regular Hours:

Monday - Friday 8:00a.m. - 4:00p.m.

Library Computer Lab

Open regular library hours.



55

**College Of St.
Scholastica
Computer Lab Hours**

Tower Computer Lab
Tower 2110, 2411, 2415, 2420

Regular Hours:

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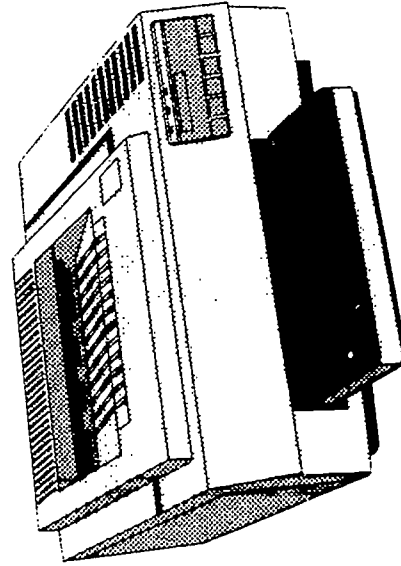
Science Computer Lab
Science 175

Regular Hours:

Monday - Friday 8:00a.m. - 4:00p.m.

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56

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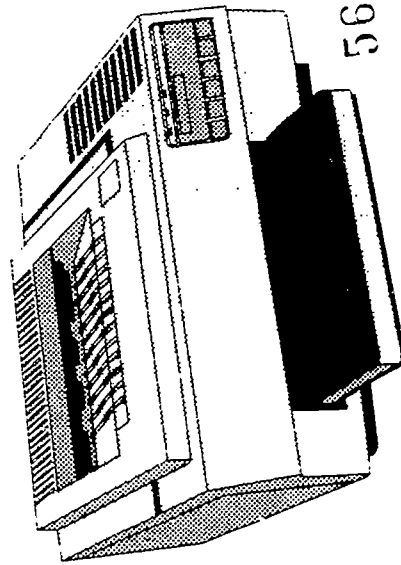
Science Computer Lab
Science 175

Regular Hours:

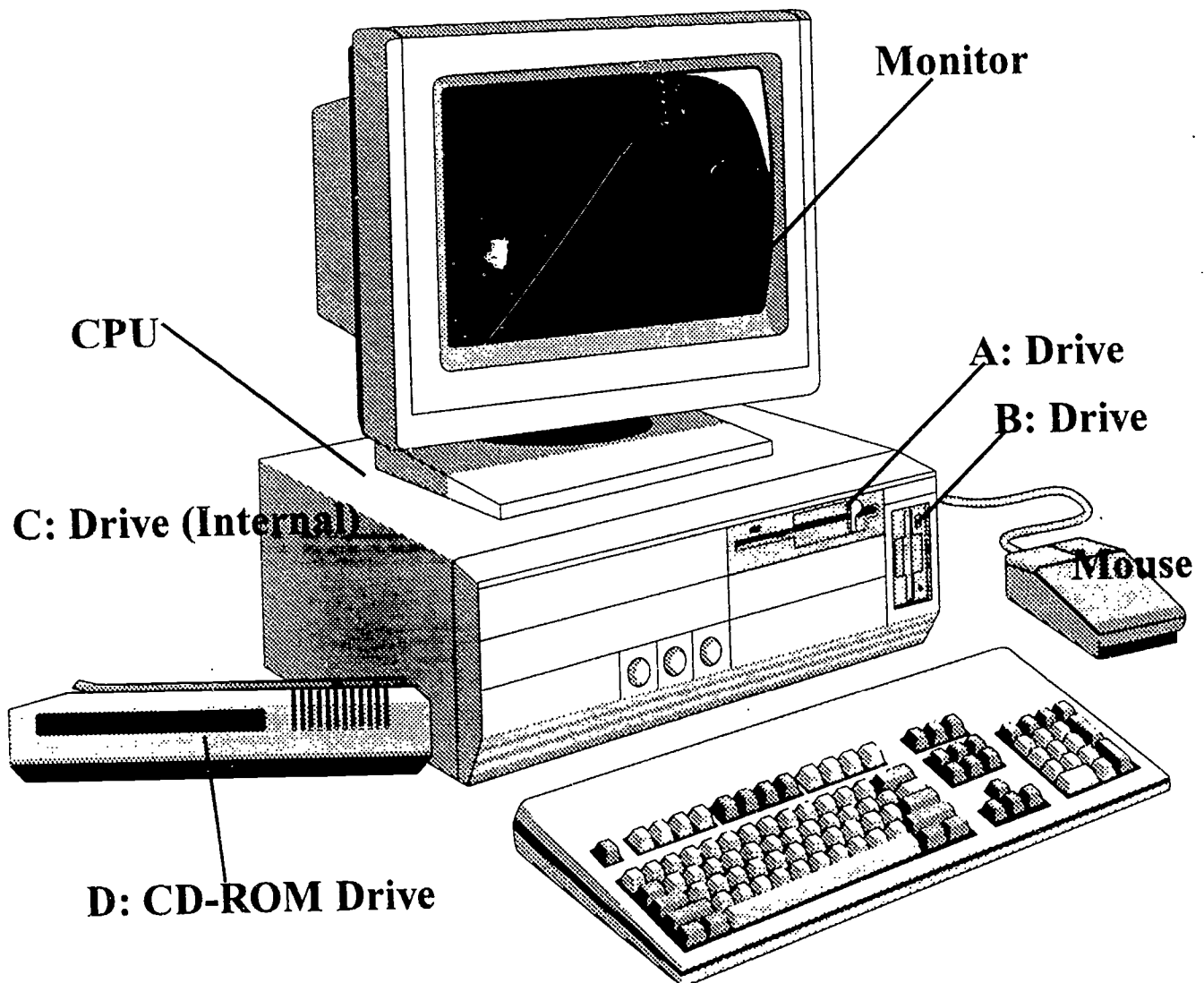
Monday - Friday 8:00a.m. - 4:00p.m.

Library Computer Lab

Open regular library hours.



COMPUTER PARTS



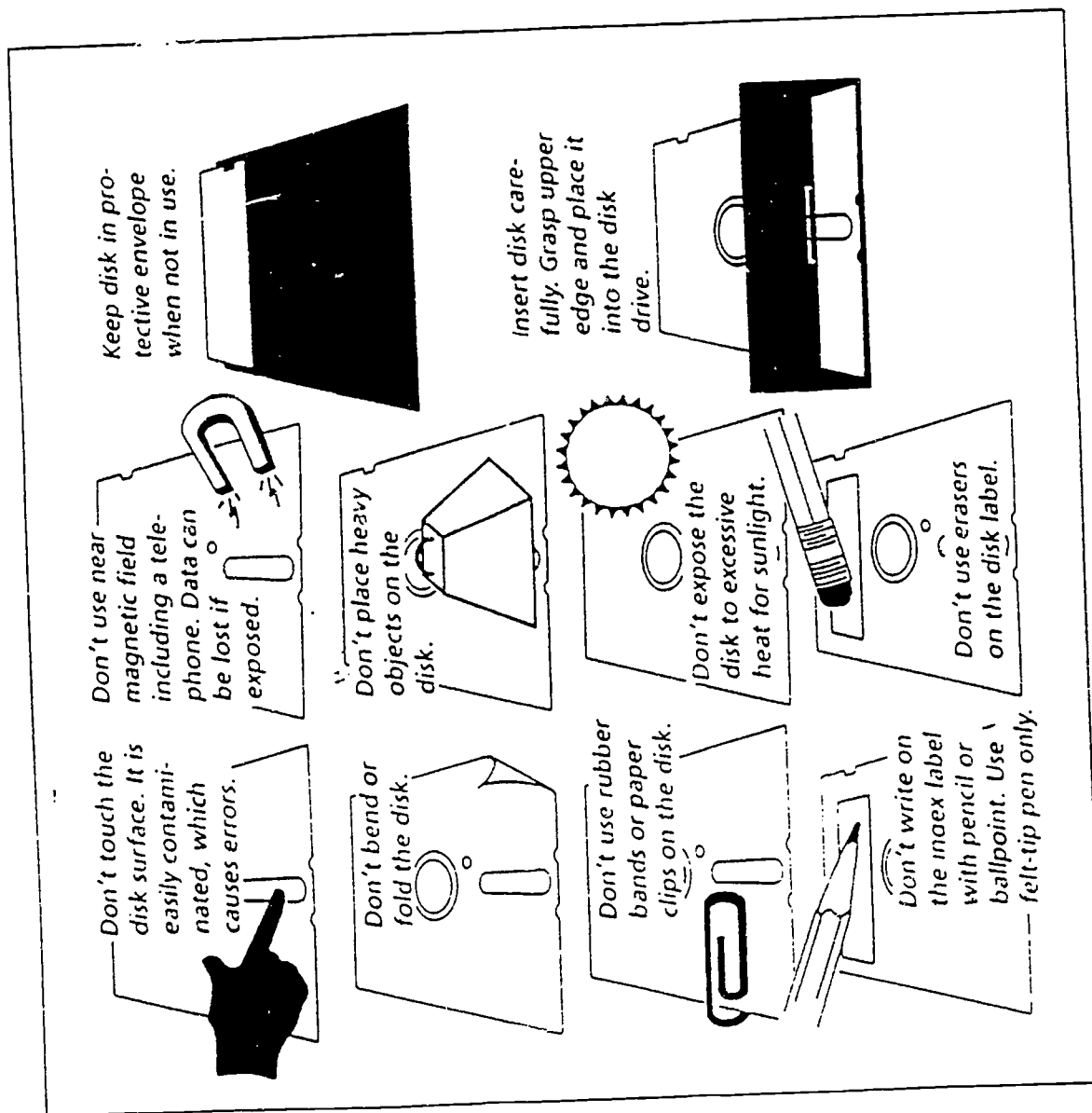
EDM 437/537 Student Survey

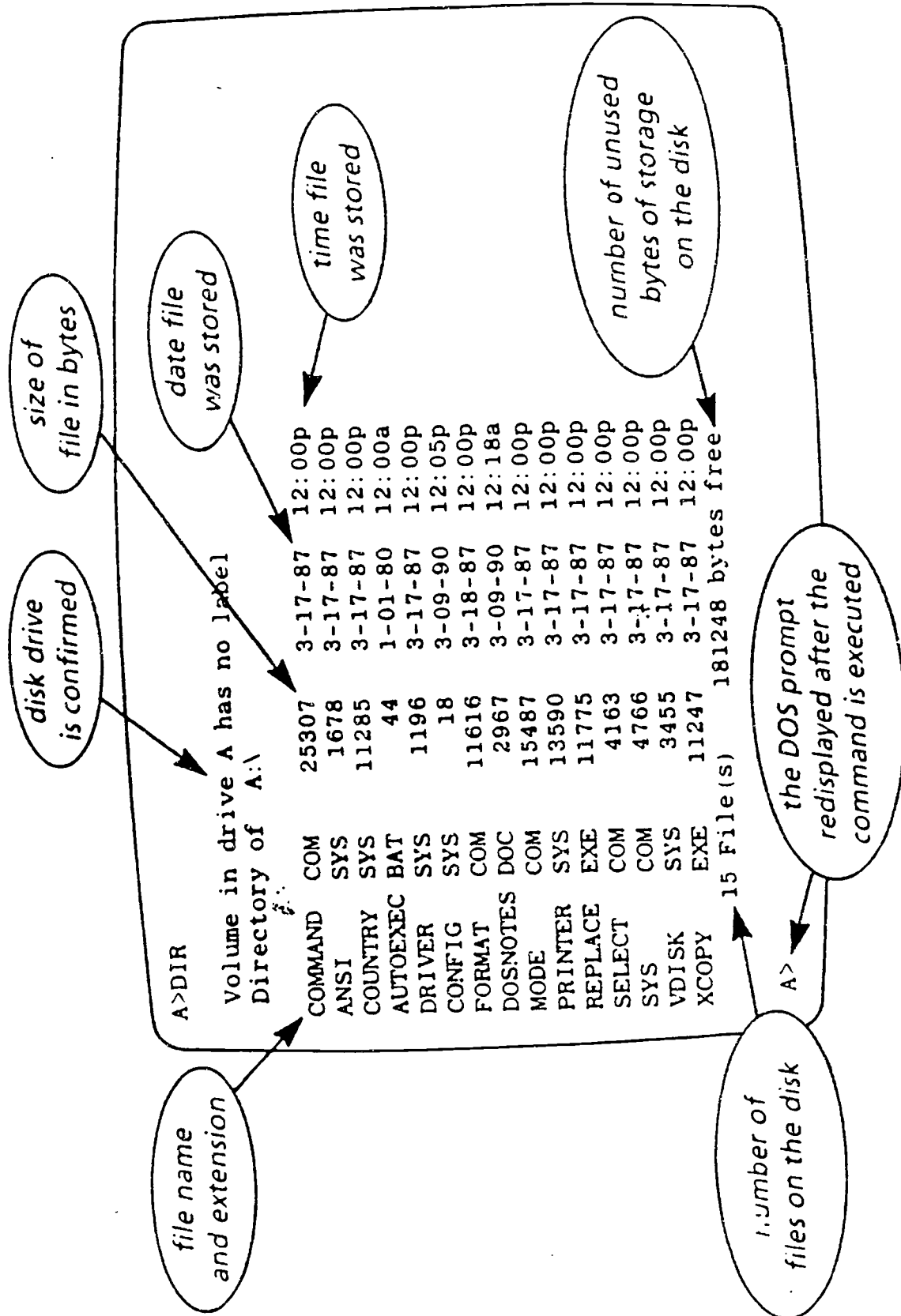
Name: _____

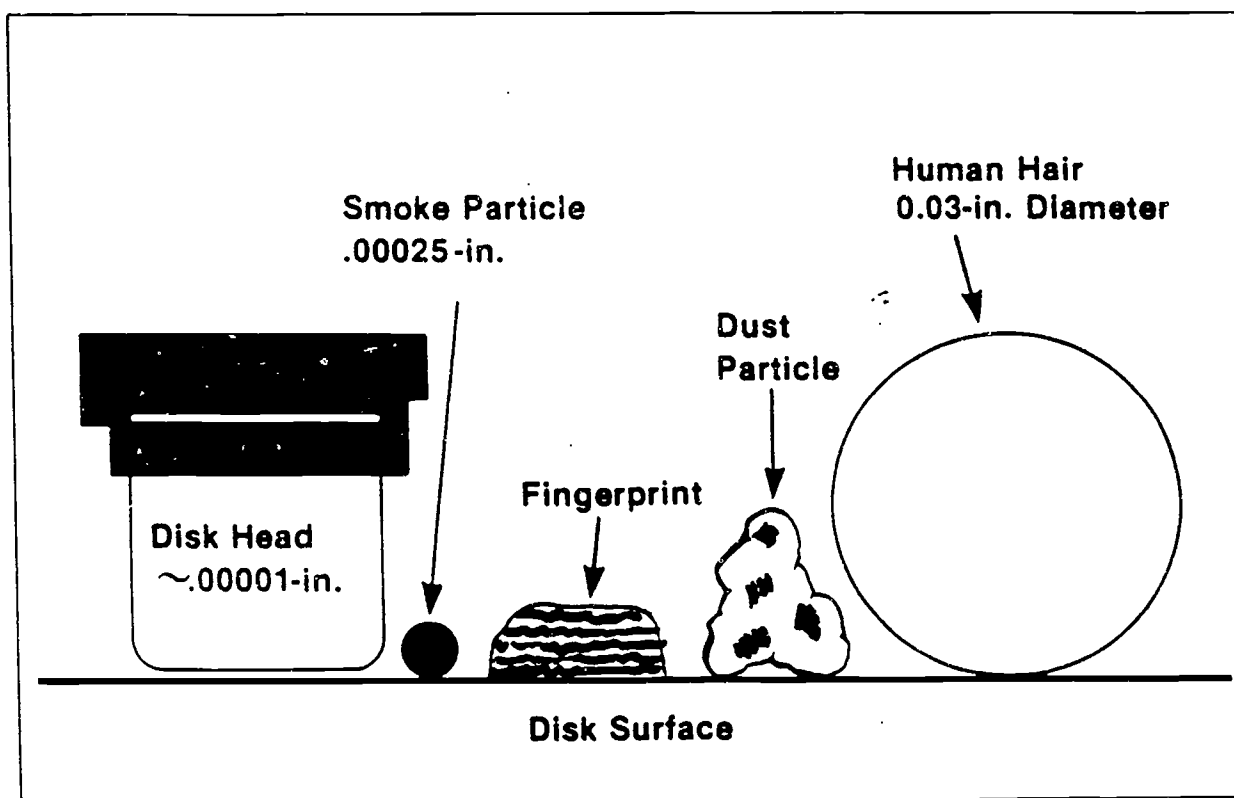
What is your major?

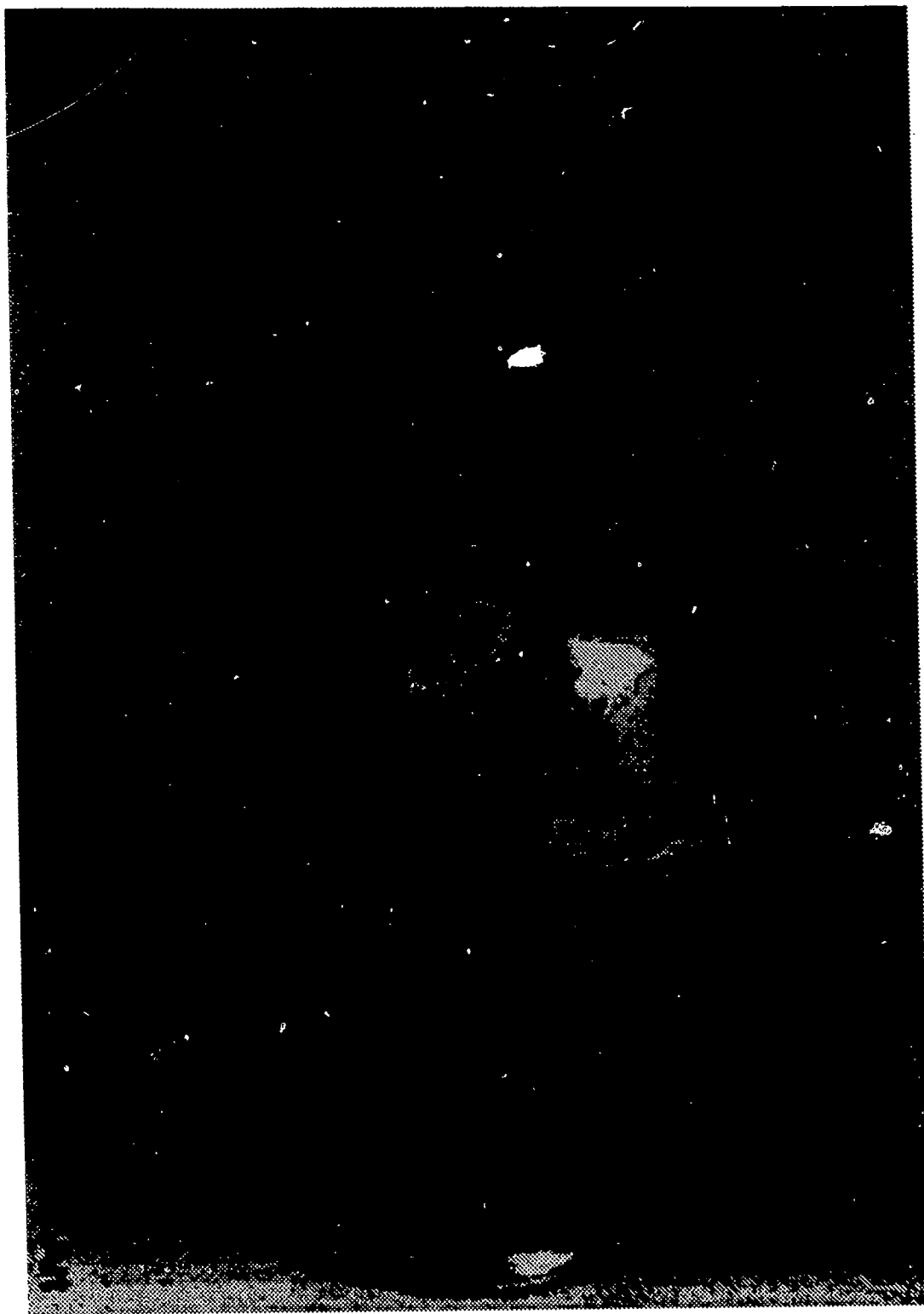
How much computer experience have you had?

What would you like to learn in this class?









Dallas Museum of Art

57

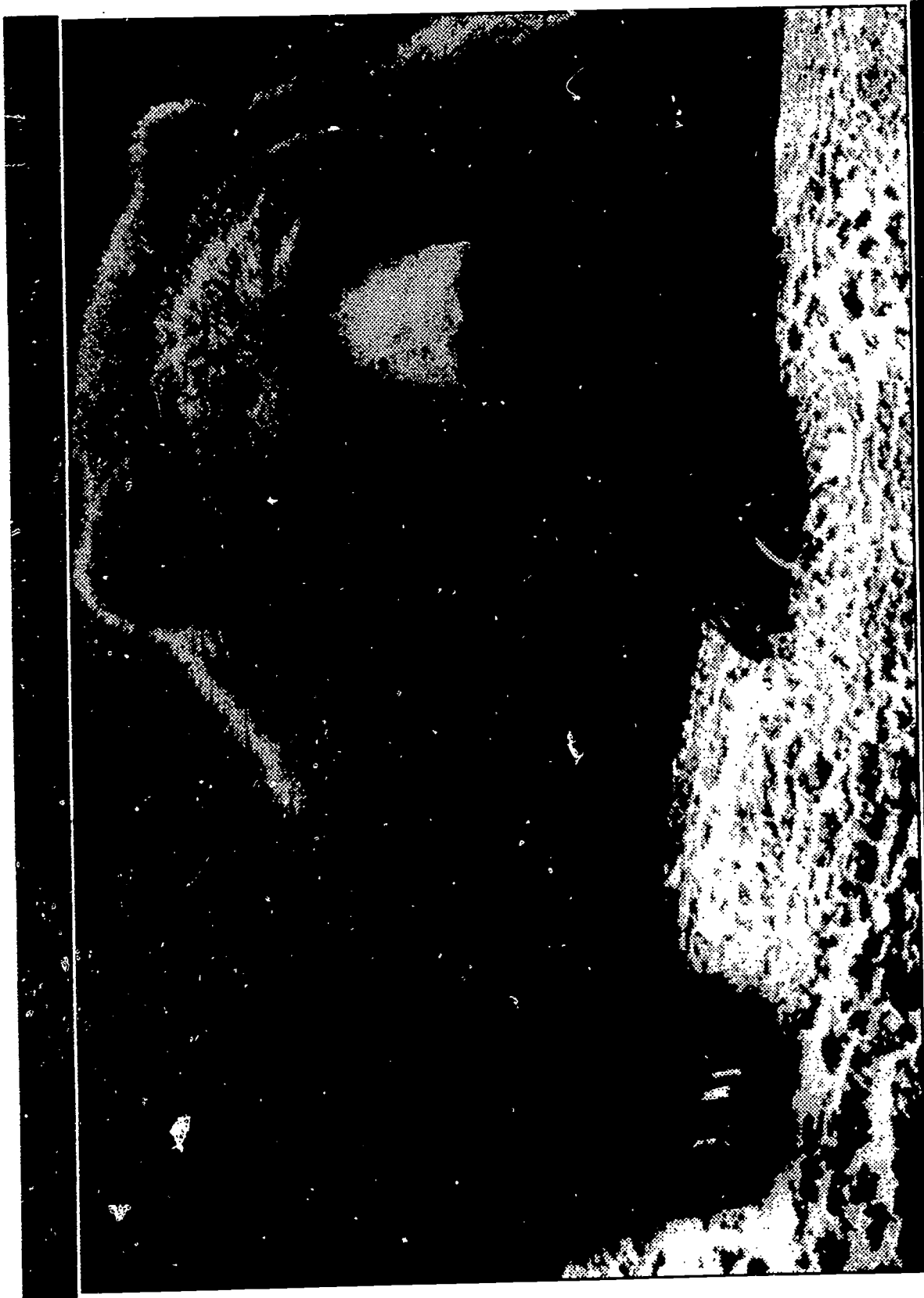
64



NASA

66

65



IN

Windsor, Ontario

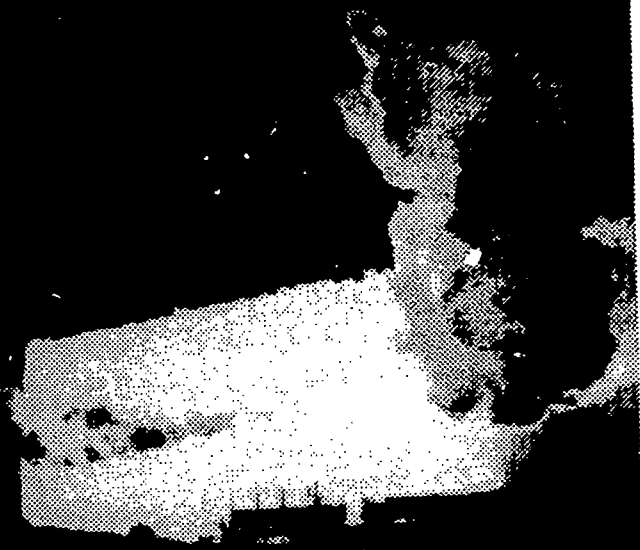
1968

Computer Program

1117 101st Street

Chatham, Ohio 43820

1117 101st Street



NASA

Appendix C

Module of Instruction #2

Module #2

Introduction to the internet

Topics: More on the PC, introduction to networking, what is the Internet?, what is available, how to find e-mail addresses, discussion groups, Telnet, talk, capture, levels of Internet access.

View in class: Video -US West - Accessing the Internet

Computer Tutorial: in class - Macintosh - Internet Cruise

Assignments: Reading and sending mail
Telnet sessions
Gibbs - Chapters 1-3, 5 and 13
Lathrop - parts 4 & 5
Read your Internet mail

Housekeeping

Materials

Video - US West: Accessing the Internet

View video

Review

Hand in survey sheets
Turning on the computers
Putting diskette in drive
Two networks at CSS - local and Internet
Logging onto local network
Popmail - **readmail**
Internet addresses - djohnson@css1.css.edu

What we will do today -

Sign up for a discussion group
Learn some Internet commands
Concentrate on text retrieval today - next week do files and images
Go to the Supreme Court, Library of Congress, University of Pennsylvania

Discussion groups and Listservs

Materials -

- Book on list of discussion groups
- Textbook - discussion groups in back
- Listserv commands transparency

Allow people with common interests to have group discussions

A list for every interest - MEMO - Librarians, Media people, Billy Idol, Star Trek, Pets, Rolling Stones.

Allows you to send a message to the Listserv - that computer then sends the message to everyone in the group - they can then respond back to you personally or to the entire group.

Example - my question about printer in labs - got 30 responses - UK, Australia, all the US.

Subscribing - Always subscribe to the LISTSERV not to the group - whatever messages you send to the group will go to everyone.

The Listserv will notify you of your subscription

Just spend time reading the messages before you reply to get a feel for the group.

Be careful about the content of your reply - depends on the group - some are cruel

Moderated or Unmoderated -

Unmoderated - accepts and distributes all e-mail from anyone registered - you deal with a machine - no person

Moderated - human filters messages to make sure they are appropriate

EXAC - CTRL-ALT-M and CTRL - enter

K:\gifview\vpic

Mark slide #1-6

Listserv commands - Slide #1

SUBSCRIBE

SIGNOFF

SET - alter your options

MAIL - NOMAIL - can suspend mail like in summer

DIGESTS / INDEX - all messages in one or just index

Can search a Listservs archived messages -

CTRL-ENTER to release EXAC

To subscribe to MEMO

go into popmail

compose

Send to LISTSERV@VAX1.MANKATO.MSUS.EDU

Leave subject blank

In body

SUBSCRIBE MEMO-net (your name)

press enter

Send

Those of you in different areas - please look through the book and find one that interests you

Fetch new mail - should have message welcoming you - print and keep

Remember this message is from a machine

Could set to digest - but memo-net will not let you

Now set Memo-net to digest so you get only one message a day

compose

Send to LISTSERV@VAX1.MANKATO.MSUS.EDU

Leave subject blank

In body

SET MEMO-NET DIGEST

press enter

Send

Managing your mail - some groups send 100 messages a day

Please read as often as possible

Exit Popmail

Intro to the Internet

Materials

- ERIC Review (copies)
- Samples of what's available - Supreme Court, White House press releases, Gif files, weather maps, NASA,
- Internet map transparency
- NASA transparency
- What resources transparency
- Types of connections transparency
- Internet Cruise - Mac program

EXAC - CTRL - ENTER

Slide #2

What is the Internet - Global network of networks -

Slide #3, and Slide #4

Network: A group of computers that communicate with each other - drawing
Show lines in lab

LAN - WAN

Modem

History - Started with the Department of Defense as a military project.

Today the Internet - millions of computers communicating - all kinds: Macs, IBMs, UNIX, others - funded by both commercial and governmental organizations

Terms used to describe - surfing, internaut, cruising, tunneling, mining, navigating

What's available -

Slide #5

- Supreme Court
- Libraries - including Library of Congress
- NASA
- Combat isolation
- Smithsonian
- Databases

files to download - text, graphics, software

Electronic mail - pen pals, interest groups, scientists, engineers, researchers, people meet other people - student is dating another from Case Western in Cleveland

Gutenberg - goal to give away one trillion electronic texts by 12-31-2001 - has given away 3.5 billion already, copyright free texts are scanned or typed into database

ERIC

Two things you will learn in this class - PATIENCE and TOLERANCE

Computers fail - they are just machines - you are relying on thousands of computers when you use the Internet

Types of connections to the Internet

Slide #6

- Permanent direct -

You must have your own network LAN - then connect that to a dedicated phone line directly to the Internet line.

Not common except at universities or providers

Best - Always available - on every computer on LAN - Most expensive

Don't have to dial up

- On-Demand Direct

This is what you want to ask TIES for - also available from commercial vendors

PPP - Point-to-point

SLIP - Serial Line IP

Used with a modem and dial-up phone line and service provider

Your computer has full Internet access

- Dial-Up Terminal

What TIES is currently offering - \$260 per year per connection

Also available from commercial vendors

Use dial up phone line to link with service provider

You use the service providers computer

When you transfer files they go to the provider's computer - then must get them down

Takes a long time to transfer files to your computer

- Mail-Only Connections

Usually cheapest

Only send and receive mail

Finger

Press C: and enter CD\MENU - MENU

Choose option #3 telnet on the menu - log in

Tells you who is logged into the system

Type Finger - tells you who is logged into CSS

Type Finger @gustavous - tells you who is logged into Gustavous

Can give you info on a particular person - person does not have to be logged on -

Type finger xxxxxx

gives general information

finger djohnson

user can create a file to display

finger Crow

User can also put instructions in file to display

finger yanoff@csd4.csd.uwm.edu

Does not work on all machines - some think it is an invasion of privacy

Talk

Like a direct phone connection

Your screen splits in half - you see what the other person is typing

You can both type at the same time

The other person must be logged into their system

Example -

Student fingered a machine in Mexico and randomly picked a person
that was logged in

He then requested a talk session and they chatted in Spanish - still are friends

Last summer the students that work working for me would finger to see if I was
logged on - if so they would request talk session and ask me questions

When you request a talk session with someone they get a message on their screen

Demonstrate with exac and Maggie

ALT - Y to end connection

Talk to your neighbor
ALT - Y to end connection

Telnet

Materials

- Capture instruction sheet (copies)
- WP one page instruction sheet (copies)
- Telnet address and instruction sheet (copies)
- Netfind sheet (copies)
- Library of Congress
- PALS
- Cleveland teachers - Lesson plans
- University of Saskatchewan - ERIC

Telnet - software that allows you to run programs on another computer as if you were in front of it.

Disadvantages

- Must know the address - next week we will use some searching software that allows you to search using menus
- Screen may be slow - Patience
- When you Telnet to a computer you are then using that computer and must know its commands

Go to the main menu - C: enter - cd\menu - menu - option #3 telnet

Using Telnet

Type TELNET and address you wish to go to

Can also use Gopher - menus instead of knowing the address

Logging in - some require passwords - some allow guest logins -

Remember - once you log onto another system you are now using their command keys
- must follow online help very carefully.

Time limits - some remote machines have time limits and will give you the boot

Connection limits - some machines only allow a certain number of machines to connect at one time

Capturing screen - **handout**
Telnet addresses handout

Using Telnet - show with EXAC first

- Connect to machine

- Capture

- exit

- print

May seem slow - think about what you are doing - communicating across the world

Telnet sessions - **handouts**

- Netfind - Whois - finding peoples Internet addresses

- Supreme court

End of class -

- Look at mailing list book if you would like to choose another list

- Look in back of your Internet text - has lots of mailing lists (listservs)

- First research article due next week -

 - Copy the article

 - Attach a one page review and reactions

- Also will be a 10 pts team search next week .

Leave time for Internet Cruise on Mac

Students practice telnetting to sites and capturing screen

- Use list of addresses and instructions

ListServe Commands

Subscrib

Signoff

Set

Mail

Digest

What is the Internet?

Global network of networks

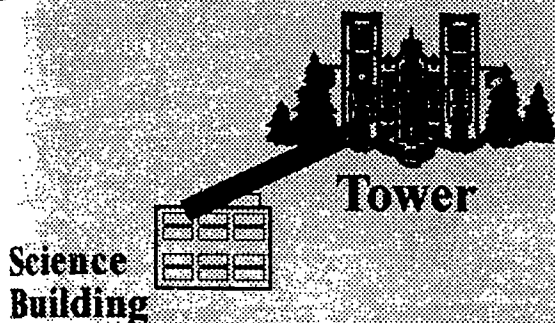
Over 1 million connected computers

Over 20 million people

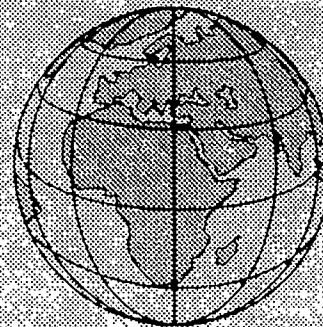
63 countries on all 7 continents

1000 computers join each day

CSS Local Novell Network



Internet World Network



What is Available?

NASA
Supreme Court rulings
Library of Congress
White House
Free software
Lesson plans
Weather and earthquake information
Smithsonian Art Gallery

Types of Connections

Permanent Direct
On-Demand Direct
Dial-Up Terminal
Mail-Only

Telnet Sessions

PALS

The library card catalog system for CSS and other colleges
telnet x29gw.msus.edu and enter
Takes you into the regular PALS system
To log out type end and enter
type \$\$SOFF and enter

UNIVERSITY OF SASKATCHEWAN - ERIC education database

Contains education, health, humanities/social sciences, legal, science, and newspaper databases.
telnet sklib.usask.ca
Username: type SONIA and enter
Type quite to exit

LIBRARY OF CONGRESS

Research library serving Congress, the federal government, and the world-wide library community.
telnet locis.loc.gov
Menu tells you how to logoff

PENNSYLVANIA STATE UNIVERSITY - Teacher Pages

Useful information for teachers.
telnet psupen.psu.edu
Username: type TX and enter
Menu tells you how to logoff

CLEVELAND LEARNING VILLAGE - Teaching Resources

Contains a teaching newsletter, curricular database, new project announcements, special program information, and a teacher education center.
telnet nptn.org
Login: type visitor and enter
Follow screen directions
Menu tells you how to logoff

UNIVERSITY OF MARYLAND - lots of neat stuff

telnet info.umd.edu
press enter for VT100 type terminal
When prompted type Q to quit

UNIVERSITY OF MAINE - National Art Gallery and serial information

telnet ursus.maine.edu

Do not press enter!

At the Main Menu - press B to connect to another database
press 2 for the National Gallery of Art

UNIVERSITY OF MICHIGAN - Weather and earthquake information

telnet downwind.sprl.umich.edu 3000

CLEVELAND FREENET - Historical documents, USA Today, and other neat stuff

telnet freenet-in-c.cwru.edu

or telnet freenet-in-b.cwru.edu

or telnet freenett-in-a.cwru.edu

login as a visitor and explore the system

TALLAHASSEE FREENET - Educational materials and other misc.

telnet freenet.scri.fsu.edu

login as visitor

YOUNGSTOWN FREENET - Supreme Court decisions and other governmental documents

telnet yfn2.ysu.edu

login as a visitor

STOCK MARKET REPORT

telnet a2i.rahul.net

login as guest

select n for guest menu

press enter when asked for terminal type

press enter for rows and columns

select MENU: Current System info

select Market Report

NASA HEADLINE NEWS

This is a long file so make sure and start your capture before you finger
finger nasanews@space.mit.edu

Capturing an Internet screen session and printing

When you are on the Internet the screen sometimes scrolls past very quickly not giving you a chance to read what it says. There are also occasions in which you would like to save what you see on the screen and print it on a printer.

On all the computers in the computer labs you have the ability to capture everything that displays on the screen to a file. This file is stored on the hard drive (C:) of the computer. You can then save that file and print it.

Deleting the old capture file

You must delete the old capture file otherwise your new screens will just be added to old material

type **del c:\telnet23\capfile** and enter

Log onto the Internet

Get to the point in which you wish to start capturing

Press **ALT-C**

In the lower right corner of your screen you should see Capt highlighted

Everything that is sent to your screen is now also being sent to the file c:\telnet23\capfile

Turn capture off

press **ALT-C**

exit Internet

Printing

To print on the network laser printers you must be logged into the local Novell network with the capture command. **CAPTURE L=1 Q=PRINTQ_2 TI=10**

This capture statement will route the printing to the printer in the Teagle computer lab

Type **PRINT C:\TELNET23\CAPFILE** and enter

MEMO-net LISTSERV subscription information.

The Minnesota Educational Media Organization (MEMO) administers a LISTSERV discussion group for library/media and technology professionals, and interested parties. It is an unmoderated (uncensored) LIST. All e-mail sent to the LIST will be posted on the list.

The LISTSERV administrator is Don E. Descy, Ph.D., Associate Professor, Library Media Education, Mankato State University, Mankato, MN 56002-8400. e-mail: descy@vax1.mankato.msus.edu
The list was started on January 1, 1994.

Subscription Information:

To subscribe to the MEMO-net LISTSERV, send an e-mail message

LISTSERV@VAX1.MANKATO.MSUS.EDU

Leave the subject line blank and use the following message:

SUBSCRIBE MEMO-net (Your Name)

Example:

SUBSCRIBE MEMO-net Don E. Descy

To unsubscribe, send an e-mail message to:

LISTSERV@VAX1.MANKATO.MSUS.EDU

Leave the subject line blank and use the following message:

UNSUBSCRIBE MEMO-net

NOTE: MEMO-net LISTSERV is presently using PMDF MAILSERV software.

The peculiarity with this is that the 'From' address in your mail directory will not list MEMO-net. It will list the sender. To aid in differentiation, please write MEMO-net as the first part of your subject.

A second peculiarity is that you will probably not be able to use the reply command. You will have to resend to:
memo-net@vax1.Mankato.msus.edu

A 'help' file is also available. To receive it please send an e-mail message to:

LISTSERV@VAX1.MANKATO.MSUS.EDU

Leave the subject line blank and send the following message:

HELP

BEST COPY AVAILABLE

Appendix D

Module of Instruction #3

75

85

Module #3

Searching software on the Internet

Topics: WAIS, WWW, Gopher, Veronica, Archie, file types, software types.

View in class: Video - NASA - Global Quest: The Internet in the Classroom

Assignment: Class activities
Internet searching for treasures
Gibbs - Chapters 7 - 9
Lathrop - part 6
First research article due - 10 pts
Team search - 10 pts.
Read your Internet mail
Gopher handout

Housekeeping

Materials

Gopher handout
learning experience outlines and examples
Video - NASA

Review from last week -

two networks - log onto local first - #1 on menu - what are they used for?

A: B: C: drives

popmail - read mail

NOTE: - job from memo-net

discussion groups - what are they? - listservs

what is Telnet? - advantages - disadvantages - need to know address and password

screen capture - save to a file to print later

finger

talk

ARE YOU READY TO GO SURFING!!!!!!

WAIS

Materials

Slides

k:\gifview

vpic - choose mod2-1 and mod2-2

EXAC - CTRL-ALT-M

CTRL - ENTER

Slide one - disadvantage of using telnet to a specific address

Main disadvantage of telnet - need to know address

There are searching tools we can use to surf the Internet

Slide two - WAIS

WAIS = Wide Area Information Server -

Allows you to search for and retrieve information from remote databases

WAIS indexes the full text of sources. Most sources are text

Most Wais servers are free - data may be eccentric and erratic

After you run a search - WAIS gives you your "hits" in order of relevance. Ranks by the number of search words that occur and number of times they appear.

STOP WORDS - words that WAIS ignores - depend on the system but usually: a the about above across after

Primitive searching - can't use "or" or "and"

Cow and farm will search documents that contain "cow" , and/or "and" , and/or "farm".

use COW FARM will search for cow and/or farm

Over 400 libraries available on WAIS including listservs

Sources: beer brewing, recipes, thesaurus, music, poetry, biology abstracts, weather forecasts

Access WAIS three ways

Telnet quake.think.com - login as WAIS

Run a local WAIS client

Get WAIS through Gopher

EXAC - Demonstration

Telnet quake.think.com - login as WAIS

Space to select directory of sources

w to enter keyword search

MULTIMEDIA and enter

highlight source and hit u to add to the source list

s to go back to sources

highlight source and press space to select or deselect it

w to search

MULTIMEDIA and enter

highlight source and enter to view

highlight source and m to mail

enter your address

results ranked according to relevance

WWW

Slide 3 - WWW

World Wide Web

Invented in Switzerland

All Internet data is hypertext - keywords have links to other text

Hypermedia - like hypertext but the links are just to other text - can be to audio, video, graphics

EXAC - Demonstrate

telnet gopher.msu.edu - login as web

Gopher

Materials

- Gopher handout (copies)
- Smithsonian (copies)
- Dallas Museum of Art (copies)
- File compression sheets (copies)

Slide 4 - Gopher

Main disadvantage of telnet - need to know address

Gopher knows the address of hundreds of useful resources

Gopher - allows you to search for things on the Internet using menus

Can telnet to a gopher or use client server software

Client - server software - FREE

- Client software runs on your machine

- Server is another machine you attach to

- Each Gopher server is linked to other servers

- Easier to use than telnet

Like octopus tentacles

Gopher retrieves files and data for you

Over 1300 servers and thousands of clients - you won't know which one to use

Veronica

Veronica - Very Easy Rodent-Oriented Net-wide Index to Computerized Archives

Allows you to search the menus of all the registered Gophers

Slide 5 - Veronica

PAITIENCE AND TOLERANCE - people that program these menus are not librarians.

Don't expect it to be like a card catalog

Show - Bart.gif

Think - Gopher is like having a huge worldwide card catalog that is maintained and taken care of by millions of different people of different professions

Also - machines may be down, full, or forbidden

Searching directories or Gopherspace

EXAC DEMONSTRATION -

Veronica Keyword search - may use boolean (and or) will go over next week

Search for SMITHSONIAN

Results can be menu items from around the world

EXAC DEMONSTRATION - set a bookmark for the SMITHSONIAN
Bookmarks - sit at same computer next week to save your bookmark

Slide 6 - filetypes
file types

Compression

.tif .pcx .wmf .gif .bmp
.tst .doc
.exe .com
.zip

Show - Gopher.gif

EXAC DEMONSTRATION IF TELNET GOPHER
telnet enews.com login as gopher

EXAC DEMONSTRATION of client - server gopher
point gopher to smithsonian or dallas
gopher.unt.edu

Step through Dallas handout

Interesting Gophers

Client - server verses telnetting

"Pointing your gopher"

Can point to or directly telnet to a particular gopher or - search for it using Veronica

End of Class

Search - 10 pts - Dallas Museum of Art

Internet Cruise on the Mac

Experiment with telnet gophers, WWW, and WAIS if you wish

Reset gopher to ua.d.umn.edu

Disadvantage of Telnet

- ✓ Must know the address of the sources you wish to retrieve
- ✓ Solution: Search tools like WAIS, WWW, Gopher, and Veronica

WAIS

- ✓ Wide Area Information Server
- ✓ Search for & retrieve information from remote databases
- ✓ Searches full text of the documents



WWW

- ✓ World Wide Web
- ✓ Hypertext - keywords have links to other words in other documents
- ✓ Hypermedia - keywords have links to words, graphics, sound, video



Gopher

- ✓ Written by the University of MN
- ✓ Free
- ✓ Client Server



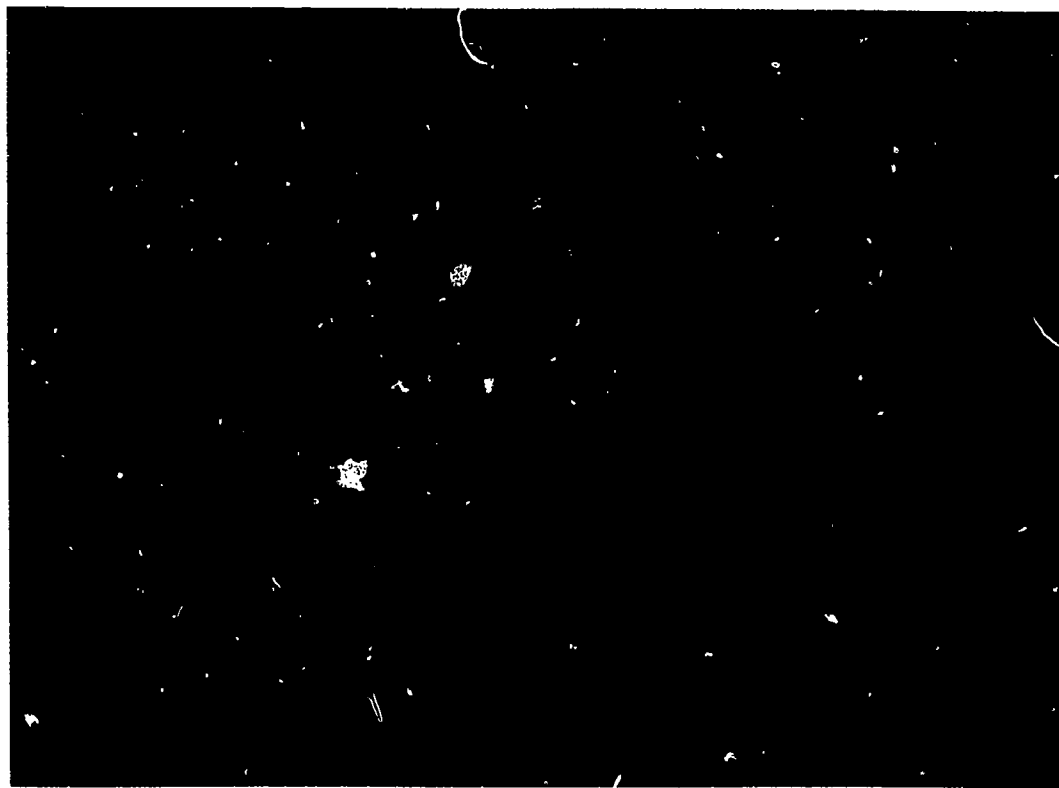
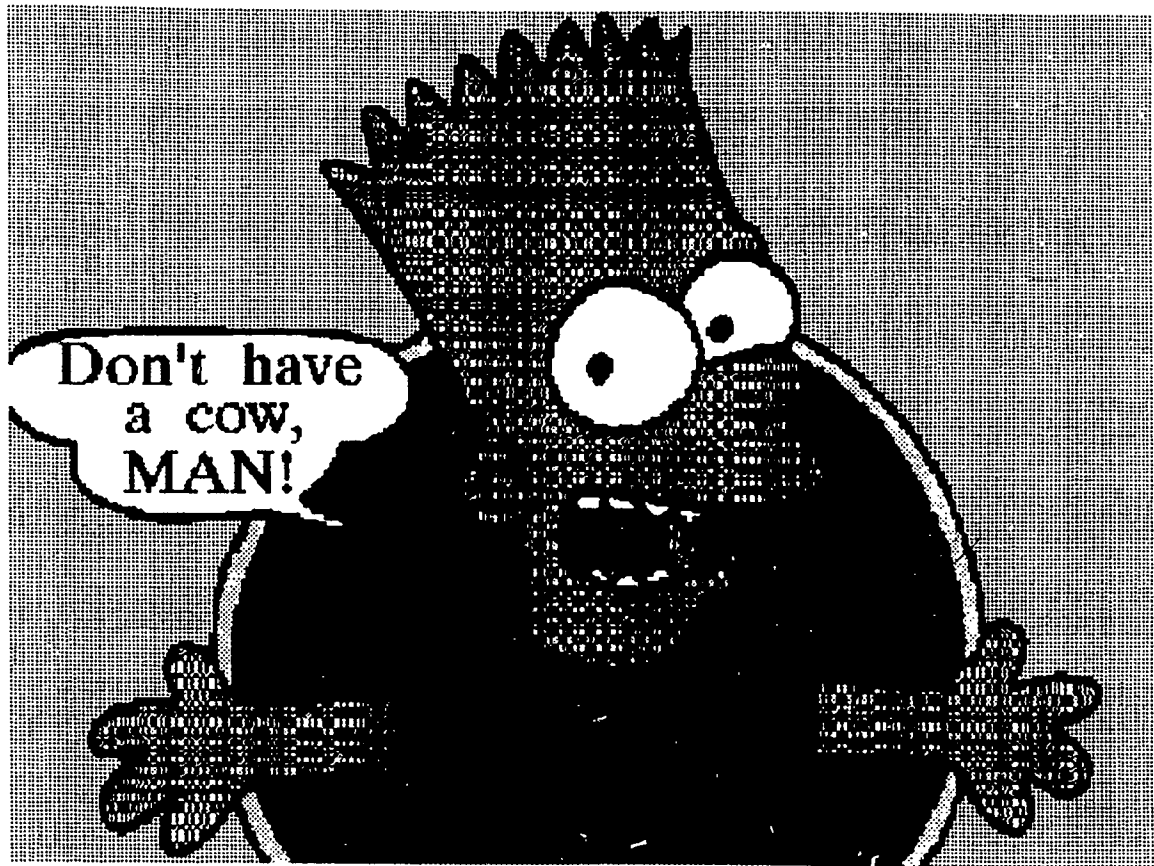
Veronica

- ✓ Works along with Gopher
- ✓ Searches all gopher menus



File Types

- ✓ Text Files: .TXT .DOC
- ✓ Graphic Files: .PCX .GIF .WMF
.BMP .WPG .TIF
- ✓ Program Files: .EXE .COM
- ✓ Compressed Files: .ZIP .ARC



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Client - Server Gophers

Need gopher software on your machine to work these gophers.

Need to "point" your client gopher to the address of your choice.

On the CSS lab computers it is done by doing the following:

Configure - Application - Home Gopher Server: enter address you wish
click on ok, press ALT-G to attach to your new gopher

Electronic Newsstand enews.com

ERIC gopher ericir.syr.edu

K-12 resources gopher.dana.edu

K-12 resources gopher.cic.net
Other CICNet Projects and Gopher Servers
K-12 on the Internet

Keypals wealaka.okgeosurvey1.gov
K12 section

Gopher for k-12 students - no inappropriate links
nwoca7.nwoca.ohio.gov

Texas K-12 gopher.tenet.edu

Ralph Bunche School Gopher - set up by 3-6 graders
ralphbunche.rbs.edu

United States Bureau of the Census gopher.census.gov

U.S Department of Ed and Office of Educational Research and Improvement
gopher.ed.gov

University of Michigan - subject oriented
gopher.lib.umich.edu
What's New and Featured Resources
Clearinghouse

Michigan Department of Ed gopher.mde.state.mi.us

Full text Supreme Court decisions info.umd.edu
/educational resources/United States/Supreme Court

Gopher Jewels cwis.usc.edu
Other gopher and info resources

University of Saskatchewan Humor gopher - Kevin's Prairie Dog Town
skynet.usask.ca

MEMO Gopher gopher.mankato.msus.edu
other information servers
MEMO

Berkeley Museum of Paleontology ucml.berkeley.edu

General Gopher - UMD ua.d.umn.edu

Images

Lots of images miles.library.arizona.edu

Smithsonian photo1.si.edu
also available through miles.library.arizona.edu
under Images

Dallas Museum of Art gopher.unt.edu
Denton, Dallas & Ft. Worth Information/Dallas Museum

RESET your Gopher Client to ua.d.umn.edu when finished surfing

Telnet Gophers

You can telnet to these gophers from your school

Public Gopher Telnet sites

telnet gopher.unt.edu	login as gopher	Texas
telnet gopher.msu.edu	login as gopher	Michigan
telnet gopher.virginia.edu	login as gwis	Virginia
telnet consultant.micro.umn.edu	login as gopher	Un. of MN
telnet uxl.cso.uiuc.edu	login as gopher	Illinois
telnet info.umd.edu	no login needed	Maryland

Electronic Newsstand

telnet enews.com	login as gopher
------------------	-----------------

ERIC gopher

telnet ericir.syr.edu	login as gopher
	press enter for VT100
	enter name or just press enter

Full text Supreme Court decisions and other neat stuff

telnet info.umd.edu	no login needed	Maryland
---------------------	-----------------	----------

Telnet WAIS and WWW

WAIS Telnet location

telnet quake.think.com - login as WAIS

Instructions:

press space bar to select directory of sources

press w for keyword search

type in your keyword you wish to search on and press enter

highlight source you wish and press u to add it to the source list

press s to return to your source list

use your space bar to select and deselect sources

press w for keyword search

type in your keyword you wish to search

highlight source and press m to mail it to you

enter your e-mail address

WWW telnet locations

New Jersey - telnet www.njit.edu

login as WWW

ERIC WWW - telnet gopher.msu.edu

login as web

GOPHER



Diana Johnson
Computer Lab Manager

Introduction

What is Internet?

The Internet is a connection of thousands of computer networks. Thousands of computers are connected and millions of people have access to them. You have access to the information on computers throughout the world using Gopher.



What is Gopher?

A gopher is an animal that tunnels its way throughout the earth. The Internet Gopher allows you to tunnel your way through the Internet. When the Internet Gopher finds a good resource we computer people say you have found a good "Gopher hole"! The Internet is a HUGE pool of information. It works wonderfully as long as you know the address of the computer that has the information that you need. Gopher is a tool that makes it easy to find information even when you don't know the address of the computer. It allows you to find information on thousand of computers throughout the world by simply choosing options from a menu.

Experimental Note:

Gopher is very new and experimental. Although it is a wonderful tool, you may run into minor glitches occasionally. Please be patient and try another "gopher hole". Also remember that things are always changing in "Gopherspace". A resource that you find one day may be moved to another location the next day.

Mouse

Gopher works with or without a mouse. If you use a mouse there are a couple techniques you need to know.

Clicking - click once with your left mouse button

Double clicking - two quick clicks with your left mouse button

Dragging - hold down your left mouse button while you move your mouse


If you do not have a mouse you will have to use the keyboard instructions.

Starting Gopher

Most of the computers in the labs have Gopher. Choose the option from the menu for Gopher. Your Gopher program will automatically connect to the "mother" Gopher at the University of Minnesota in the Cities.

Menu and Status Bars

Consists of 4 pull down menus

 Click on your choice

 F10 to make menu bar active - arrow keys to select menu - enter to pull down menu

Menu Bar



Status Bar

Status Bar

F1 - Help

F10 - Menus

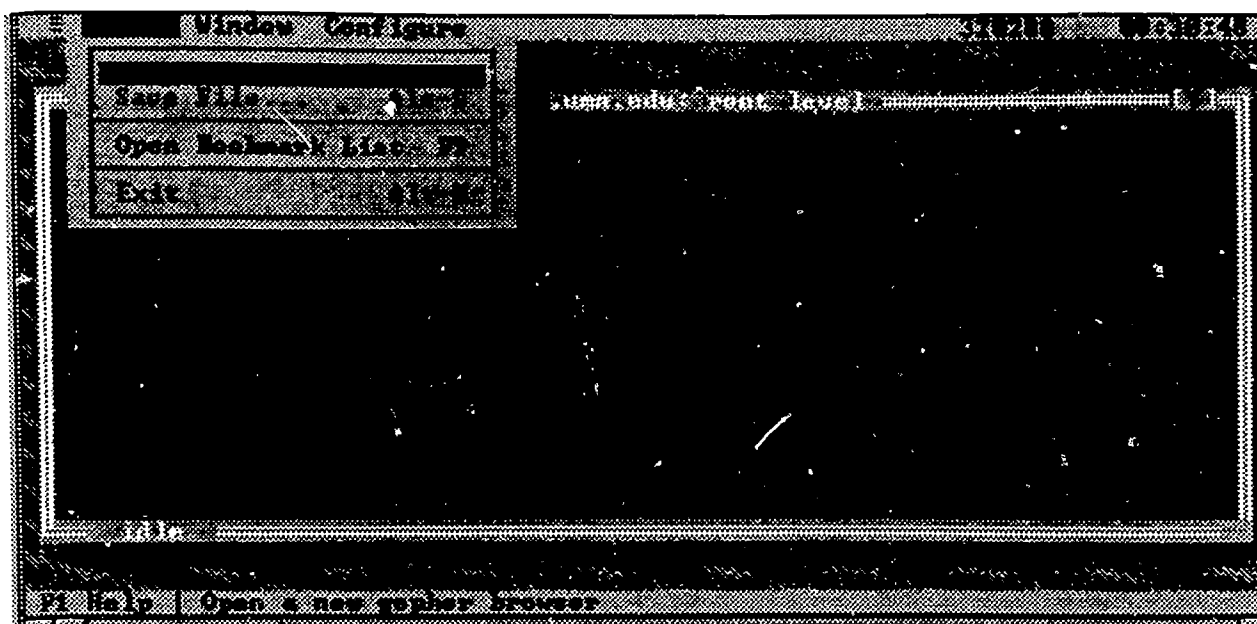
Alt-X - Exit

Alt-G - New Gopher (starts a new Gopher session)


Alt-Z - Cancel Query (cancels a search)



Pull Down Menus



To Activate the menus

 Click on your menu choice

 To make the menu bar active: F10


#	<ul style="list-style-type: none"> About PC Gopher III Calculator Calendar Puzzle Dos shell 	<ul style="list-style-type: none"> copyright information pop-up calculator monthly calendar mind teaser game temporarily leave Gopher and use dos
File	<ul style="list-style-type: none"> New Gopher Save file... Open bookmark list Exit 	<ul style="list-style-type: none"> opens new connection to gopher Save the active file opens your bookmark list quits Gopher
Window	<ul style="list-style-type: none"> Next Size/move Zoom Close 	<ul style="list-style-type: none"> brings back window to the front allows you to move the window with arrow keys makes the current windows full screen size closes the current window
Configure	<ul style="list-style-type: none"> Network settings 	<ul style="list-style-type: none"> You should never have to worry about this menu Everything has been preset for you


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Sizing and Moving Windows


Gopher works on a "windows" based concept. You can move and size these windows.


Sizing windows -

 drag the lower right hand corner


 CTRL-F5, hold down the shift key while you press an arrow key, press enter when the window is the size you want

Moving a window -

 drag the top

 CTRL-F5, use your arrow keys to move the windows, press enter when done

Closing a window

 Click on the upper left hand corner square

 ALT-F3

Scroll Bars

Allows you to see what is scrolled off the window

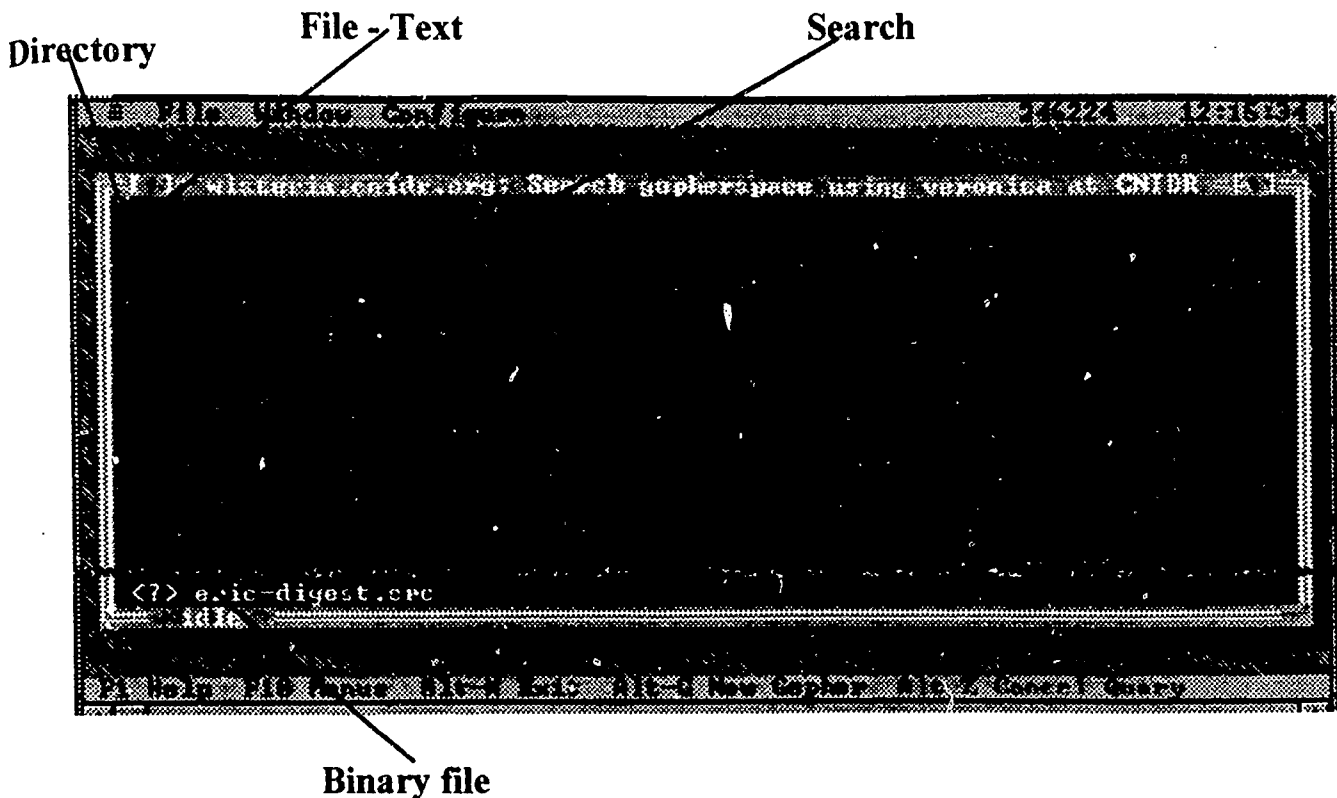
Close

Scroll Bars



Window
Sizing

Gopher Item Types



Other Gopher and Information Servers

All the Gopher Servers in the World

Following are a few examples of Gophers that may be of interest to you:

ACADEME This Week (Chronicle of Higher Education)

Academic Position Network

American Mathematical Society

American Physiological Society

European Gophers

Apple Computer Higher Education

Hospitals

DNA data bank of Japan

National Genetic Resources

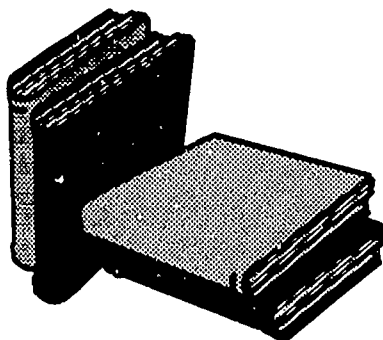
NASA

National Science Foundation

National Institute of Health

Bookmarks

You can save your place if you find a good "Gopher hole". File - Open Bookmark. To add a bookmark simply find the spot you want to save, open the bookmark, and click on add.



Libraries using Gopher

You have access to libraries across the world including PALS using Gopher. So you can access PALS on any system that has Gopher. A bookmark has been set up for you to use PALS. You choose PALS from the bookmark and then choose the Minnesota State University System.



Library possibilities -Libraries throughout the world, Library of Congress, electronic books, journals, newspapers, magazines, newsletters, Information from the U.S. Government, world fact book, Eric digests, dictionary, thesaurus, telephone area codes, and the Periodic Table of Elements.

Searching with Gopher

Searching Gopherspace with Veronica

Veronica = Very Easy Rodent-Oriented Net-wide Index to Computerized Archives. Veronica allows you to search through all the Gopher servers in the world for a particular topic. One thing to remember is that you are searching Gopher menus and not the actual data that they contain. Your results are displayed in a Gopher menu format. You can have line items from computers throughout the entire world on your particular subject. Each line item points to a Gopher data source. You can search one word or use the simple boolean search. The boolean search allows you to use "and" and "or".



Search considerations: Veronica indexes the TITLES on all levels of the menus for Gophers on the Internet. It does not search the full text of the file.

-  **Double click** on Other Gophers and Information Servers
- Double click** on Search titles in Gopherspace using Veronica
-  **Use your arrow keys** to highlight Other Gophers and Information Servers - press **Enter**
- Use your arrow keys** to highlight Search titles in Gopherspace using Veronica - press **Enter**
- Search possibilities** - Readers Guide, Eric, your favorite newsletter (it may be online), your favorite organization

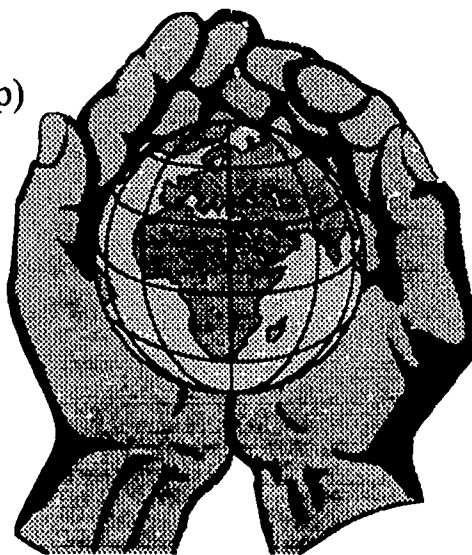
Archie = Archive without the V

Archie allows you to search for things that are available on FTP sites. FTP sites are simply computers that are "holding tanks" of information and anyone can retrieve that information. FTP sites offer software, data, and other information that can be copied at no charge.

Search considerations: Exact Word Search - will only match items that have the search term in them as a whole word. Partial Word Search - will find words embedded in other words. Archie searches on the NAME of the file.

-  **Double click** on Internet file server (ftp) sites
- Double click** on Search FTP sites (Archie)
-  **Use your arrow keys** to highlight Internet file server (ftp) sites- press **Enter**
- Use your arrow keys** to highlight Search FTP sites (Archie) - press **Enter**

Possibilities - Interest group lists, lyrics, Supreme Court rulings, software, and documents



WAIS Searches

WAIS = Wide Area Information Servers. WAIS searches computers that keep archived databases.

Search considerations: WAIS searches on what is in the file. It looks for documents which contain the words and phrases you are searching for.

Double click on Other Gophers and Information Servers

Double click on WAIS based Information

Use your arrow keys to highlight Other Gophers and Information Servers - press **Enter**

Use your arrow keys to highlight WAIS based Information - press **Enter**

Examples of available databases:

Aeronautics

Bible

Biology journals

Book of Mormon

Columbia Law Library

Cosmic abstracts

Earth science

Indian classical music

Journalism periodicals

Lyric search of songs

Movie reviews

National environmental

Poetry search

Protein data bank

Recipes

Science fiction guide

Supreme court rulings

Saving Gopher Items

When you find an item you wish to save:

Click on File - Save file - type the file name to save - include the B: or A:

F10 to activate the menu line - **highlight File - Save file** and press **enter** - type the file name to save - include the B: or A:

**The best way to learn
is to experiment!**



Glossary

Archie - Archive without the V. Allows you to search FTP sites for a particular subject.

Bookmark - Allows you to keep your place in Gopher. You can remember your good "Gopher holes".

CNIDR - Committee for Network and Information Discovery and Retrieval

Gopher - Software that allows you to search the Internet by using menus.

Internet - Collection of computer networks in many countries. Consists of thousands of computers and millions of users.

NREN - National Research and Education Network.

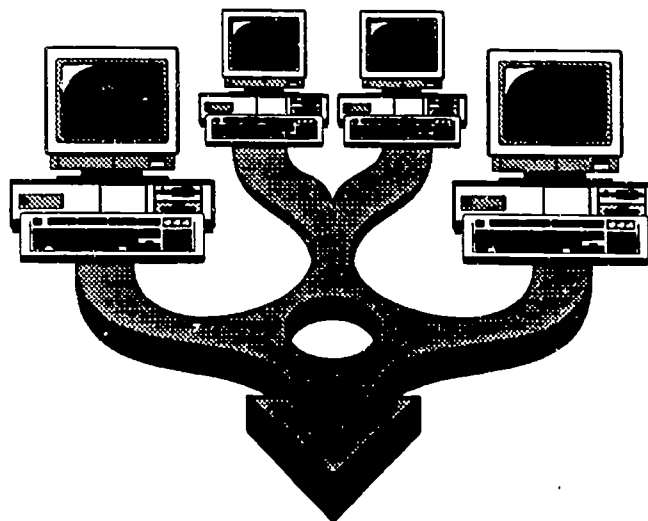
NSFNET - National Science Foundation Network.

NYSERNet - New York State Education and Research Network

TELNET - Software that allows you to log in to another computer at a remote site.

Veronica - Allows you to search for a particular subject in "Gopherspace"

WAIS - Wide-area information servers. System for looking up information in databases across the Internet.



Dallas Museum of Art

Description: The Dallas Museum of Art is now on the Internet. It offers digital images from its permanent collection. Each image file includes not only a picture of an artwork, but also a full text identification label and remarks. Shareware image viewers are also provided.

Suggestions for classroom use: Art projects, science papers, and presentations.

Additional notes: Start with an empty diskette because the images and software that you download are large.

Instructions

Connect to the Dallas Museum of Art Gopher Server:

"Tunnel" to the Dallas Museum Gopher - can do this one of two ways:

Search using Veronica for the Dallas Museum Gopher

Or find the University of North Texas Gopher

Or set your Gopher to gopher.unt.edu 70

Download the instructions

You should always download instructions and read them.

Choose the following menu items:

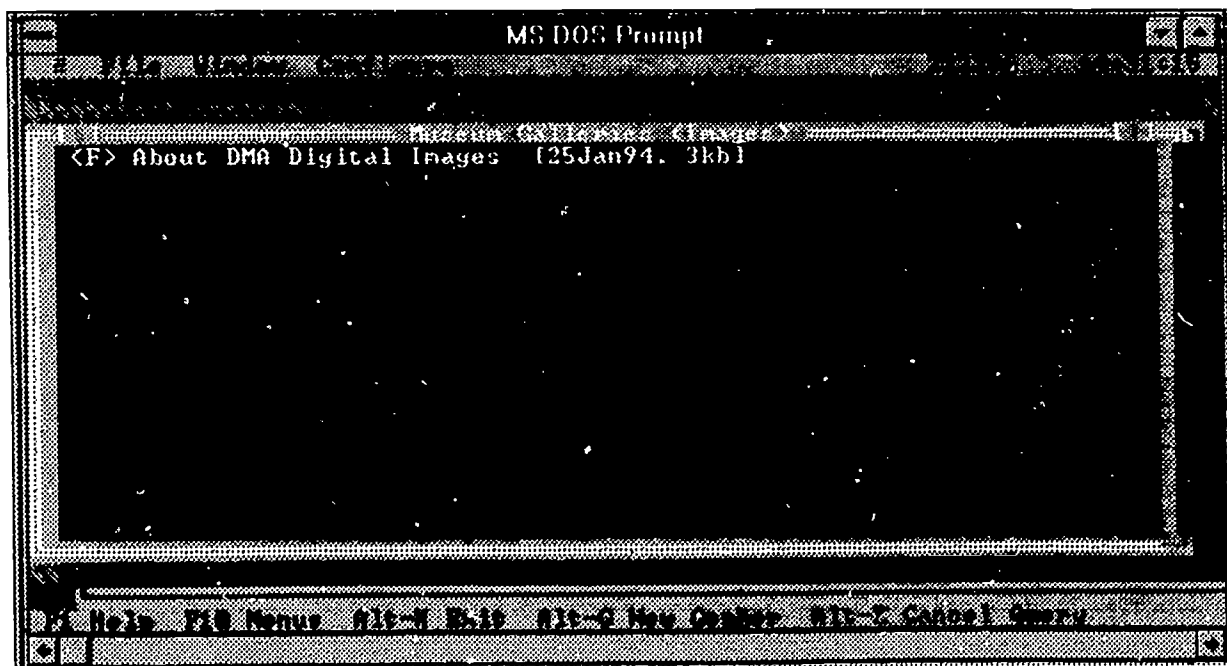
<D> Denton, Dallas & Ft. Worth Information & Resources

<D> Dallas Museum of Art - Information & Images

<D> Museum Galleries (Images)

<F> About DMA Digital Images

Download or read this file. It gives you instructions and information.



Download the viewing software

insert an empty diskette in the B: drive

<D> Digital Image Viewers

 cshowa.exe

Type B:cshow.exe to save your image viewer on your diskette

Click on OK

Gopher will tell you when you are done receiving the program

Downloading images:

Go back to the Museum Gallery (Images) menu

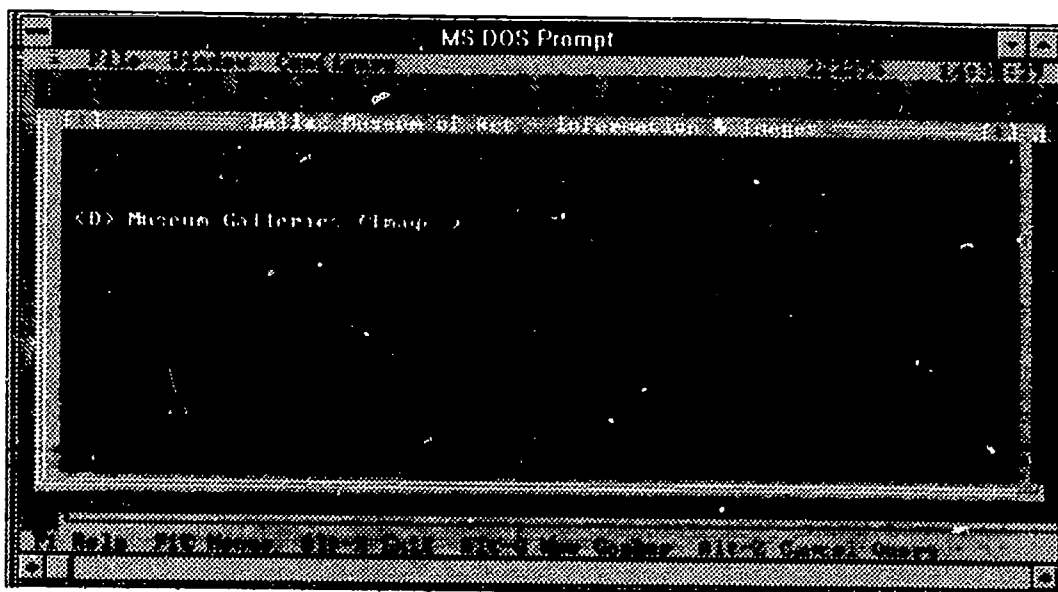
select any of the museums

select any of the images

Type B:xxxx.gif to save your image on your diskette - replace xxxx with the name of the image

NOTE: images always need the extension .gif

Remember to always name the image file with a .gif extension.



Viewing your images

Exit Gopher - File - Exit

at the c:\menu> prompt type b: and enter

type cshow and enter

this will uncompress the software

type DIR and enter - notice the directory called cshow you now have

type cd\cshow

type cshow

highlight the .. and press enter

highlight your image and press enter

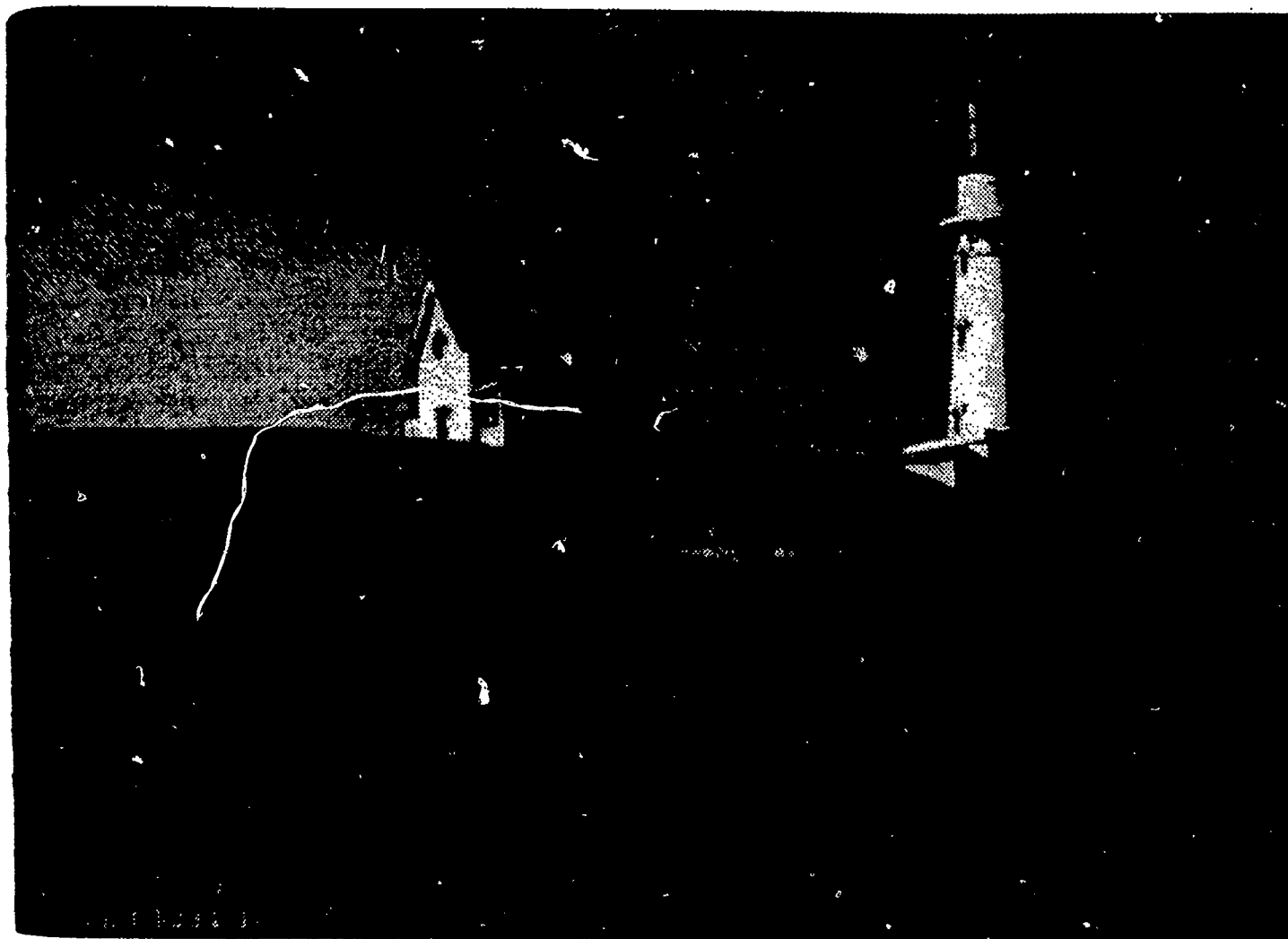
press space bar to view

press enter

press y to see comments

This image viewer can be used with any .gif files - you are ready to surf for some more exciting images!!

Dallas Museum of Art



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100

110

Greece

"Black-Figure Panel Amphora"

Last quarter 6th century B.C.

ceramic

Dallas Museum of Art, Munger Fund

1965.29.M

Throughout the 6th century B.C. Greek pottery painters experimented with ways to describe reality on the curved surface of a vase. In the best examples, the urge toward description is balanced by the necessity of creating an effective two-dimensional design. For instance, this stately amphora has two panel scenes representing combats from the Trojan War. The heroic ethos attributed to the contestants in this war appears first in Homer's "Illiad", a fountainhead of Greek civilization. The amphora depicts scenes in which the Greek hero Achilles and the African Prince Memnon, who was fighting on the Trojan side, contest the body of the dead Antilochus. Combat here is frozen in a central heraldic group which maintains the nature of the vessel in its flat pattern. To either side of the heroes are their mothers, mourning a battle which can only end in loss for one of them. The scene is both ornamental and filled with a sense of tragedy; it is purely humanistic, without any scenic distraction from the confrontation of armed warriors, one of who must die. -- From "Dallas Museum of Art, Selected Works," p.101.

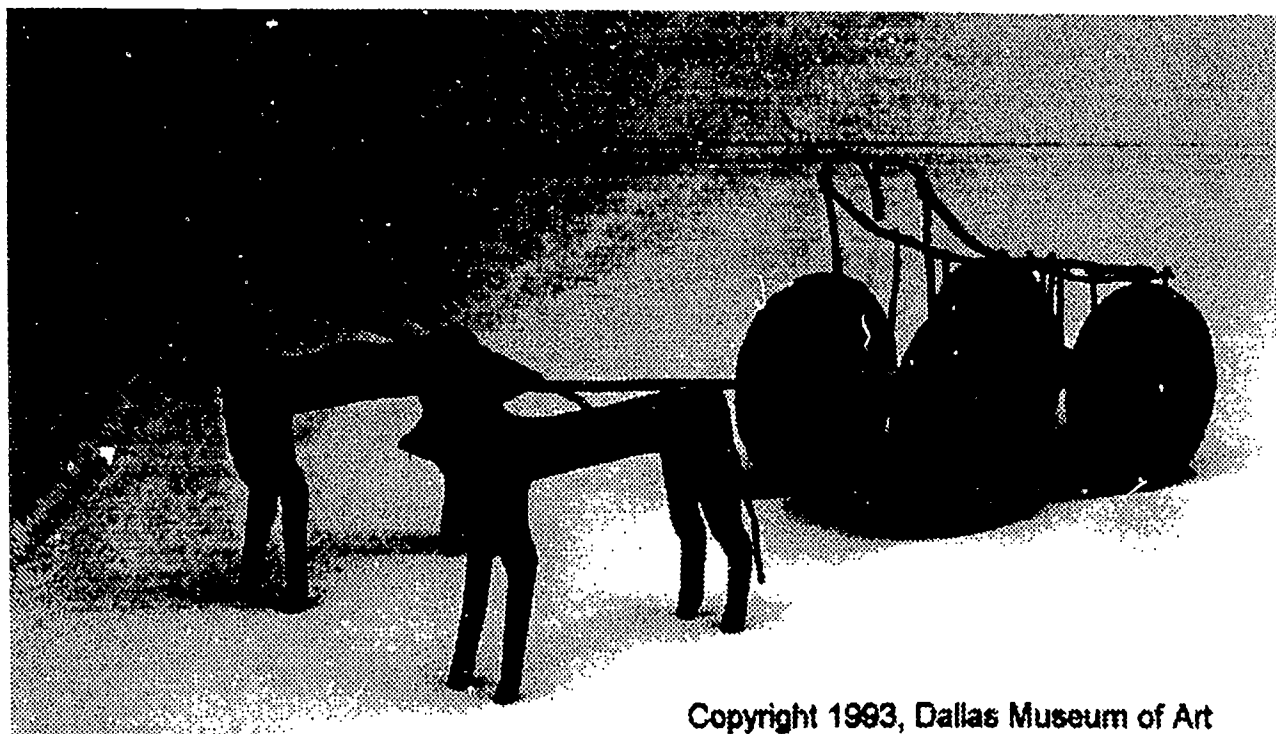
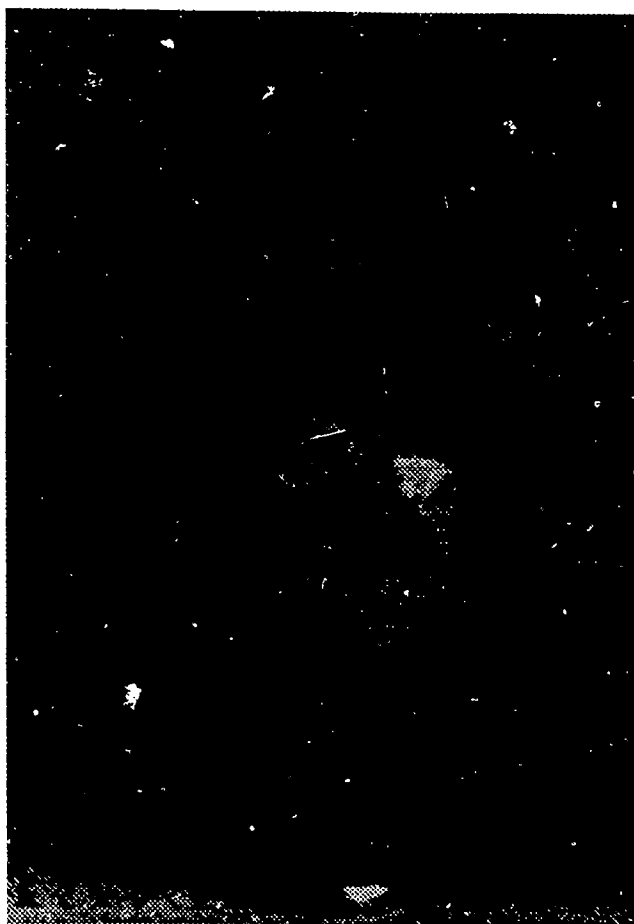
One of the basic shapes of Greek pottery was the amphora, a large, two-handled vase used primarily to hold wine or oil. The panel scenes on either side of this amphora depict armed warriors fighting. The chief scene probably shows the Greek hero Achilles fighting over the dead body of Antilochus with the Trojan hero Prince Memnon. To either side stand the warriors' mothers, as mourning figures. The scene has a heraldic grandeur and a sharply pointed sense of tragic dignity.

Dallas Museum of Art, "Museum of Europe Label Text," August, 1993.

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(Press a key) >



Copyright 1993, Dallas Museum of Art

Thanks for visiting the Dallas Museum of Art section on the University of North Texas Gopher! We appreciate the opportunity to show you more about our Museum and its facilities. The next time you are in Dallas, please be sure to drop by for a real-time visit.

The digital images provided here are for personal educational use. They are not intended for institutional or commercial use of any kind. Please help us protect the integrity of these artworks (and this public access project!) by using them appropriately. All images bear a 1993 photographic copyright which belongs to the Dallas Museum of Art (so no, they are not in the public domain!).

All images are stored in GIF89a format, which means that in addition to the image itself, each file contains a text extension block with written comments about each piece. We have included identification information for every artwork here, and many of the pieces include an essay written by our Curators and Educational staff to help you learn more about it.

In order to view the text extension block, you have to have a viewer that supports the GIF89a format. After you download each file, be sure to rename it with the file extension 'gif.' We have provided a shareware viewer called 'CompuShow' for your convenience, but there are also other GIF89a viewers readily available. Jay Wherley's freeware utility, 'GifDesk' is a good example.

All DMA images are provided to you at 640x480x256 resolution— this is not meant to be an insult to those of you with finer display devices, it was done simply to ease the painful process of downloading images by providing a smaller size file. If you come to the Collections Information Center at the Dallas Museum of Art, I will be happy to provide students and educators free images at a fairly wonderful 512x768 rez and glorious 24 bit color (Please bring your own disks).

Please drop me a line and tell me what you think.

Kevin Comerford
Director of Information Technology
Dallas Museum of Art

Internet: czbb020@access.texas.gov or dma@gopher.unt.edu
Compuserve: 71233,2412 America Online: DalMuseum

Appendix E

Module of Instruction #4

Module #4

More searching software on the Internet

Topics: finding and transferring files, FTP, Archie

View in class: Video - experience the power: Network Technology for Educat.

Assignment: Class activities
Internet searching for treasures
Gibbs - Chapters 4 and 6
Lathrop - part 7
Team search - 10 pts.
Collaborative classroom project with Cedar Creek Elementary in St. Francis, MN
Read your Internet mail

Housekeeping

View Video - Experience the power

Review

What is -

WAIS
WWW
Gopher
Veronica

FTP

Materials

Slides

Instruction handout on FTP at CSS

SLIDE #1

FTP - File Transfer Protocol

Allows transferring of files between computers on the Internet

Available to FTP - text - books - software - images

Software - will cover copyrights and licenses later in the course

Anonymous FTP - computers that allow anyone to FTP and grab anything they want free - do not need password or ID

commands

get filename | more types on screen

SLIDE #2 - get and put

Two modes - ASCII and BINARY

ASCII - used for text files

BINARY - used to transfer programs images or other files not just text

Compressed files - reduced in size - after you retrieve them you need to decompress - .zip
.tar .arc

Directories and files

EXAC Demo of ftp

READ.ME files contain instructions

Instructions on FTP from CSS

ARCHIE

Materials
slide

Slide#3 - ARCHIE

Hundreds of thousands of files on thousands of computers - how do you find them?

ARCHIE - index of file and directory names (software, images, documents)

NOTE - relies only on names and directories

If you know the name of the file - ARCHIE can find it

If you don't know the name of the file - search on words that may relate

ARCHIE servers are busy - may not let you in.

ARCHIE is also available through gopher.

List of Archie addresses in your book

End of Class

Second research article due next week

10 pt search

Internet cruise on the Mac

Time to play -

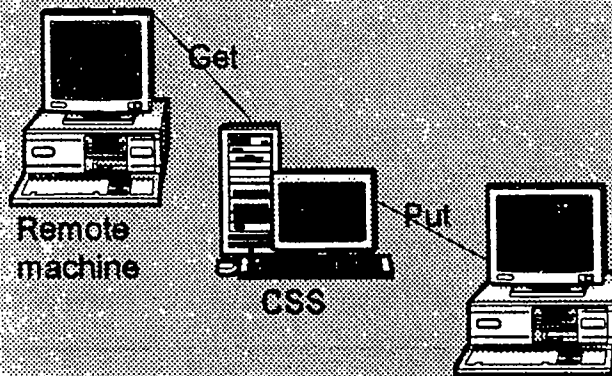
Start thinking about learning experineces - Use the Dallas Museum of Art and other handout as a model - Write them so everyone in the class can follow them. Sort of like a map guiding someone to a treasure.

FTP

- ▶ File Transfer Protocol
- ▶ Transfers files from one computer to another
- ▶ Available - documents, software, images
- ▶ Anonymous - you don't need a password for the remote system

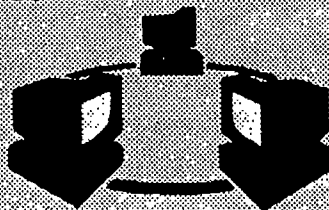


FTP at CSS



ARCHIE

- ▶ Allows you to search FTP sites for keywords
- ▶ Only indexes filenames and directory names



Sample FTP Session at CSS Smithsonian Art Gallery

Purpose: To retrieve images (GIF files) from the Smithsonian Art Gallery

Logon to the Telnet computer

Type **ftp photo1.si.edu**

Login as **anonymous**

When asked for a password type in your Internet address - example
djohnson@css1.css.edu

Type **cd /images/gif89a/science-nature** to change to the correct directory

Get the file from the Smithsonian computer and put it on the Internet server at CSS
Type **binary** to put in binary mode - this is necessary because you are transferring a non-text file

Type **get mtgoat.gif**

Type **quit** to exit FTP from the Smithsonian computer

Put the file from the CSS Internet server to your personal PC.

Your computer is protected so other people cannot view your files while you are in FTP.
You must take this protection off to put the file from the CSS Internet server to your PC.

At the **CSS1>** prompt hold down the **ALT** key and press the **P** key

Use the down arrow to get to **File transfer is - Disabled**

Press the **spacebar** so it changes to enabled

Press **F1**

Hold down the **ALT** key and press the **F** key

You should now have the **ftp>** prompt

When it asks for your login name just press **enter**

Type **binary** to put FTP in binary mode

Type **put mtgoat.gif**

Exit ftp by typing **quit** and **enter**

Hold down the **ALT** key and press the **P** key. Use down arrow to get to **File transfer is - Enabled**. Press **spacebar** so it changes to **disabled**.

Press **F1**

The file is put on **C:\telnet23** directory on your PC

Exit Internet

Put the image file on your diskette

Type **copy c:\telnet23\mtgoat.gif b:**

This copies the image file from your C: drive to the diskette in the B: drive

Delete the file from the C; drive - type **del c:\telnet23\mtgoat.gif**

Viewing the image

Type **B:** and enter to read the diskette in your B: drive

Start the image viewer by typing **b:\cshow\cshow**

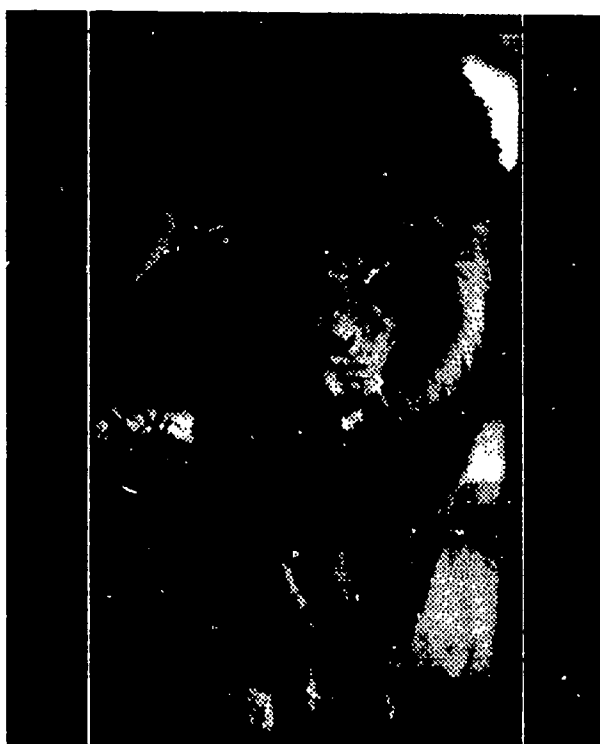
Highlight the image you just downloaded and press **enter**

Press the **spacebar** to view

Press **enter**

Press the **Y** to view the comments

Press **ESC** twice to exit



PROJECT CHAPMAN

This Internet file server has been made possible through a generous grant from the Apple Library of Tomorrow Program, under Project Chapman (named for John Chapman, a.k.a. "Johnny Appleseed").

These images cover topics ranging from air and space to science, technology, history, and even current events. These images are designed to give the user who cannot come to Washington, the opportunity to see and learn about many of the Smithsonian's most popular and important objects and exhibits.

These images cover a broad spectrum of interests which we hope will interest our electronic audience. Here we are able to present photographs from many of our museums on the Mall in Washington, D.C. plus other Smithsonian bureaus such as the National Zoo and the Smithsonian Astrophysical Observatory.

Starting with some of the best of our photography, all scanning and image preparation is done in our Electronic Imaging Laboratory to insure each file meets our standards. In addition to the image, extensive captions are often included with each image as part of our mission for the "increase and diffusion of knowledge."

We hope you enjoy these images and we invite your comments.

<Smithsonian Printing & Photographic Services>
<PSDMX@SIVM.SI.EDU>

RULES AND CONDITIONS FOR SMITHSONIAN IMAGE FILES

These Smithsonian image files cover topics ranging from air and space to science, technology, history, and even current events. These images are designed to give the user who cannot come to Washington, the opportunity to see and learn about many of the Smithsonian's most popular and important objects and exhibits.

They cover a broad spectrum of interests which we hope will interest our electronic audience. Here we are able to present photographs from many of our museums on the Mall in Washington, plus other Smithsonian bureaus such as the National Zoo and the Smithsonian Astrophysical Observatory.

Starting with some of our best photographs, all scanning and image preparation is done in our Electronic Imaging Laboratory. In addition to the image, extensive captions are included, as part of our mission for the "increase and diffusion of knowledge." These captions are either within the image file itself, (the 89a Comment Block in GIF files; or captions in the JFIF.uu files read with the ImageBrowser HyperCard stack); or are available as a separate accompanying ASCII file in the folder PREVIEW-TEXT [filename.ASC].

We hope you enjoy these images and we invite your comments via E-mail to PSDMX@SIVM.SI.EDU.

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1. Q. May I put these on a file server in my school, company, museum?

A. Yes, if there's no charge for the user. All the accompanying text information (accompanying ASCII text caption files [filename].ASC, this SMITHSONIAN.RULES.TXT file, etc.) must be included, and must be presented completely and unchanged.

<< >>

2. Q. May I put these on my BBS? What if I charge a subscription fee?

A. Contact the address below first. If approved, all the accompanying text information (accompanying ASCII text caption files [filename].ASC, this SMITHSONIAN.RULES.TXT file, etc.) must be included, and must be presented completely and unchanged. If there is a subscription fee for the BBS, such a fee must be only for overall access, and not specifically for download or use of these files.

< < > >

3. Q. May I mirror these files on my Internet site in Finland or Australia because it is expensive for my users to log into photol.si.edu?

A. See 1 & 2 above.

< < > >

4. Q. May I put these on a CD-ROM, public domain or otherwise?

A. No.

< < > >

5. Q. May I print some of these out for my report?

A. Assuming this is a non-commercial academic work, yes. This type of use is encouraged.

< < > >

6. Q. How do I obtain permission to use the files in a publication, commercially, on a CD-ROM, BBS, etc.?

A. Anyone wishing to use any of these files or images for commercial use or publication must first request and receive prior permission by contacting:

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Office of Printing & Photographic Services
MAH CB-054
Washington, DC 20560
(PSDMX@SIVM.SI.EDU)

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PROJECT CHAPMAN

The Smithsonian's Internet file server "photol.si.edu" has been made possible through a generous grant from the Apple Library of Tomorrow Program, under Project Chapman (named for John Chapman, a.k.a. "Johnny Appleseed").

< Smithsonian Printing & Photographic Services >
< PSDMX@SIVM.SI.EDU >

Appendix F

Module of Instruction #5

Module #5

Other resources on the Internet

Topics: Library catalogs, graphic images, Internet hunts, funding and grants, commercial providers, America Online, Prodigy, Compuserve.

View in class: Video - Prodigy

Assignment: Class activities
Gibbs - Appendix A
Lathrop part 8
Second research article due - 10 pts
Read your Internet mail - Cedar Creek Elementary
Work on learning experiences

Housekeeping

Read your mail

Should be answers from Cedar Creek Elementary
Mailed a copy of the Internet Hunt
Read the recap of the past 4 weeks that I sent you

Collect Research Article reviews

View Video - Prodigy

Review

FTP - Binary, ASCII
ARCHIE
File Compression - .ZIP .EXE PKUNZIP

Internet Hunt, Freenets, Commercial providers, Funding and Grants

Materials

- Slides (copies)
- Internet Hunt - Mailed
- IBM funding booklet (copies)
- E-mail articles

SLIDE #1

Internet Hunt

Materials

- Mail internet hunt

Internet Hunt

- Monthly
- usually 12 questions
- people from all over the world participate
- example in your book in Appendix A

SLIDE #2

Freenets

- Regional bulletin board type system.
- List of freenets is in your text on pages 31-32

EXAC DEMO OF FREENETS

- telnet freenet.buffalo.edu
- telnet freenet-in-a.cwru.edu
- telnet freenet.hsc.colorado.edu
- telnet heartland.bradley.edu

Modem - how it works

- open computer and show
- show how to plug into phone line

SLIDE #3

Commercial providers

- Prodigy
- American Online
- CompuServe
- Genei
- Delphi

Business News, Dow Jones stock quotes, other financial and investment information - airline reservations, games, online shopping - access to all internet

Funding and Grant info

IBM booklet on funding

End of Class

Color Book Program search - 10pts

Play with Prodigy

Play with Freenets

Search for grant info on Gopher and Veronica

Time to work on learning experiences

Reminder - don't have to "get" something - just a neat source is fine

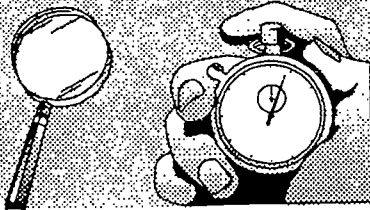
Internet hunt - in your book or the one I sent in e-mail

Internet Cruise on the Mac

- Color Book Program Search
- Play with Prodigy
- Play with Freenets
- Use Gopher and Veronica to search for grant information
- Internet Cruise on the Macintosh
- Work on learning experiences

Internet Hunt

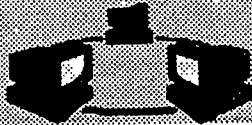
- ▶ Monthly set of questions to be answered using the Internet
- ▶ People all over the world participate



Notes

Freenets

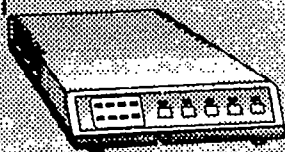
- ▶ Free
- ▶ Regional bulletin board-type system
- ▶ Most linked to Internet
- ▶ Montana, Cleveland, Denver, Illinois, Ohio
- ▶ Some offer services for teachers



Notes

Commercial Providers

- ▶ American Online
- ▶ Prodigy
- ▶ CompuServe
- ▶ Genie
- ▶ Delphi



Notes

Color Book from Gopher

Description: You will use FTP and Gopher to retrieve a program for elementary school children. This program is a color book for the computer. This program is compressed so you will also retrieve another program to decompress it.

Suggestions for classroom use: Introduce children to the mouse and the computer

Additional notes: May want to start with an empty diskette because the program and decompression software take up a lot of space.

Instructions

Connect to the MERIT Archive FTP computer

"Point" your gopher to gopher.tc.umn.edu

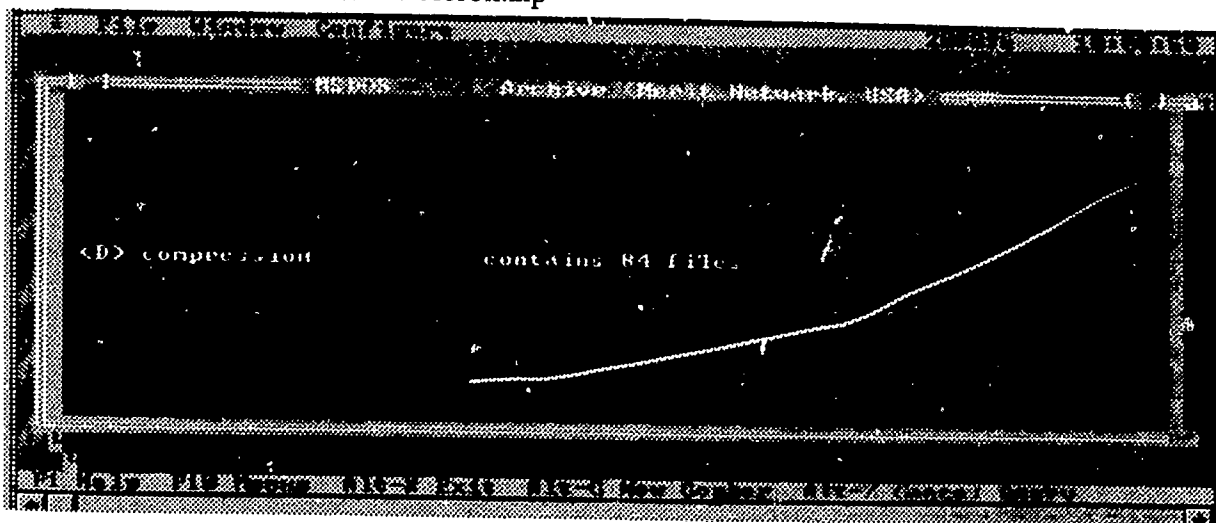
Choose the following menu items

- <D> Internet file server (ftp) sites
- <D> Popular FTP Sites via Gopher
- <D> Software Archives at MERIT (University of Michigan)
- <D> MSDOS Archive (Merit Network, USA)*

Download the color book program

- <D> educational
- <D> tutorial
- colorbk.zip

save this file as b:\colorbk.zip



Download the decompression software: Since the color book program has the extension .ZIP you will need a program to decompress it.

Return to the MSDOS Archive (Merit Network, USA) menu

- <D> compression
- <D> zip
- pkz204g.exe

save this file as b:\pkz204g.exe

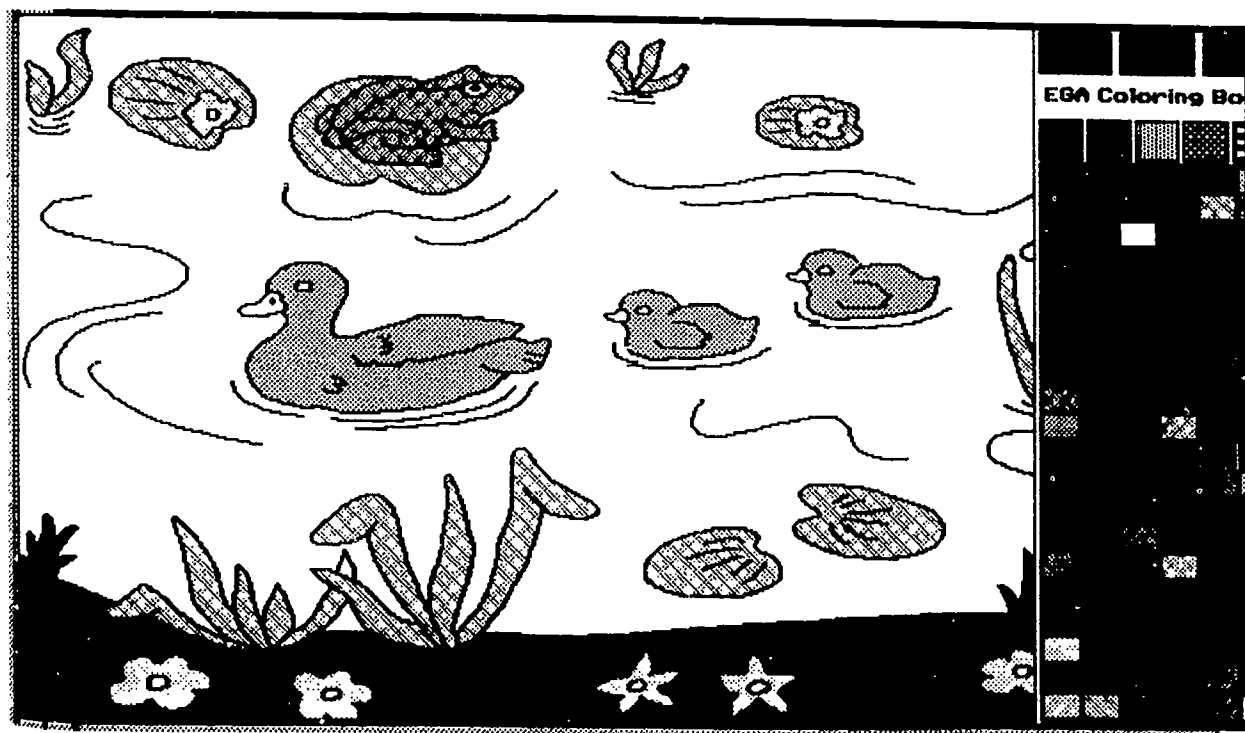
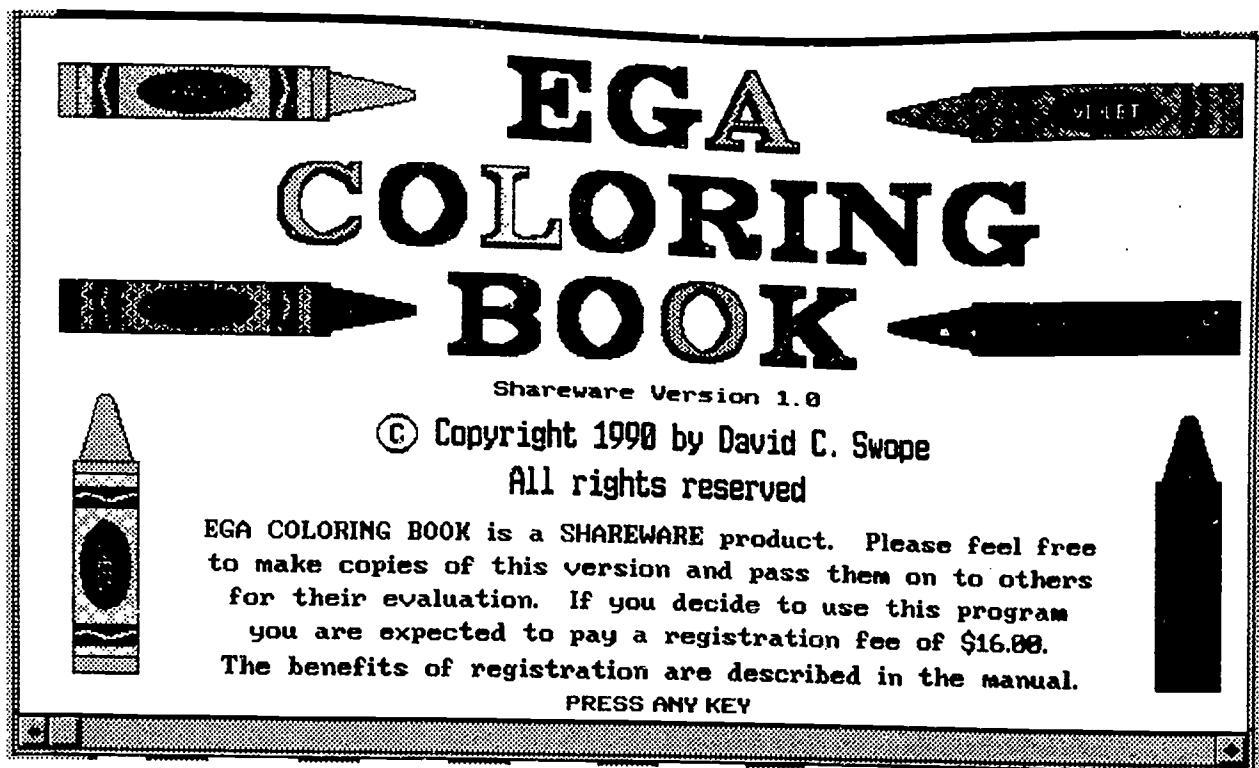
Decompressing and using the Color Book Program:
Exit Gopher - File - Exit

Type **b:** and **enter** to use your B: drive

Type **pkz204g** to expand the compression program

Type **pkunzip colorbk** to decompress the color book software

Type **ecb** to start the colorbook



Appendix G

Module of Instruction #6

Module#6

Policies and ethics on the Internet

Topics: Policies, plans, ethics, copyrights, dangers, games, MUDS
Inservicing teachers and staff

View in class: Video - Don't copy that floppy

Assignment: Class activities
Gibbs - Chapter 11
Read your Internet mail
Work on learning experiences
- later in quarter - Learning experience presentations

Housekeeping

Read Mail

I sent you e-mail example of Shouting and emoticons :-)

View Video - Don't copy that floppy

Review

Internet Hunt

Freenets

Commercial Providers

Internetiquette

Materials

- Slides
- Policies from other schools (mailed)
- Porn article (copies)
- Shareware catalogs
- e-mail discussion on censorship
- IBM - Intro to Technology in the classroom brochure (copies)

SLIDE #1

Etiquette for Electronic mail

Shouting - using all caps in e-mail - hard to read

Correct addressing - story in book about lady in major corporation. ' having a relationship with man in same organization - got in a fight. she typed up a heated email letter with very revealing things. she fumbled on the keyboard and sent it to everyone in her department.

Quotability: Remember anything you say can be instantly forwarded to thousands of others

Who sent it? - make sure it is who it said it was

Your tone -

Other peoples tone - carefully read

Suitable content - could be your career on the line - system operator lost his job because of religious letter - was flamed with obscene gif files

Discretion - don't send anything you don't want the world to read

Flaming - written in anger - DON'T

Chain letters - DON'T - waist of resources

SLIDE #2

E-mail shorthand

- Adds emotion to e-mail
- LOL - Laughing out loud
- OTF - On The Floor (laughing)

ROTFL - Rolling On The Floor Laughing

SLIDE #3

E-mail Emoticons

Page 189 in text

Characters that denote faces and expressions - read sideways

:-) Smile

;-) Wink

:-(Sad

:-> Smug

:-o Shocked

:-x lips are sealed

When leaving an account

Sign off all listservs

delete any files

Copyrights

SLIDE #4

copyrights

Public Domain - Freeware

Shareware

Commercial

Usually the program says the copyright on the first screen - show examples

policies and plans

Search retrieve and print others from the Internet

SLIDE #5

dangers

Games

Viruses

Hackers

Security

Obscene material - example - student searching for a picture of a zebra. Found a file called ZEBRA.GIF - ended up being a naked woman

Read some discussion about censorship

Security - change passwords often -

There are programs that keep trying to get a password correct
What would you do if ---

End of Class

Play a MUD - 10 pts

Search for technology plans - find and print one

America Online

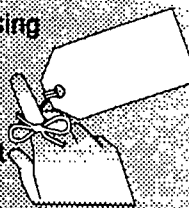
Compuserve

Delphi

- Search for technology plans using Veronica
- Prodigy
- Work on learning experiences

Internetiquette for e-mail

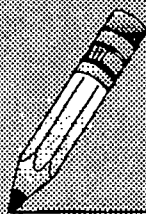
- ▶ Shouting
- ▶ Correct addressing
- ▶ Quotability
- ▶ Who sent it?
- ▶ Tone
- ▶ Suitable content
- ▶ Flaming
- ▶ Chain letters - Don't



Notes

E-mail Shorthand

- ▶ LOL - Laughing Out Loud
- ▶ OTF - On The Floor (laughing)
- ▶ ROTFL - Rolling On The Floor Laughing



Notes

E-mail Emoticons

- ▶ :-) smile
- ▶ :-) wink
- ▶ -(sad
- ▶ -> smug
- ▶ -o shocked
- ▶ -x lips are sealed



Notes

Copyrights on Software

- ▶ Freeware - Public domain
- ▶ Shareware
- ▶ Commercial



Notes

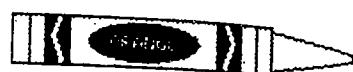
Dangers

- ▶ Pornography and obscene material
- ▶ Viruses
- ▶ Hackers - security
- ▶ Games

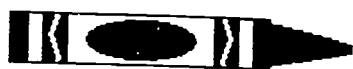


Notes

BEST COPY AVAILABLE



EGA COLORING BOOK



Shareware Version 1.0

© Copyright 1990 by David C. Swope
All rights reserved



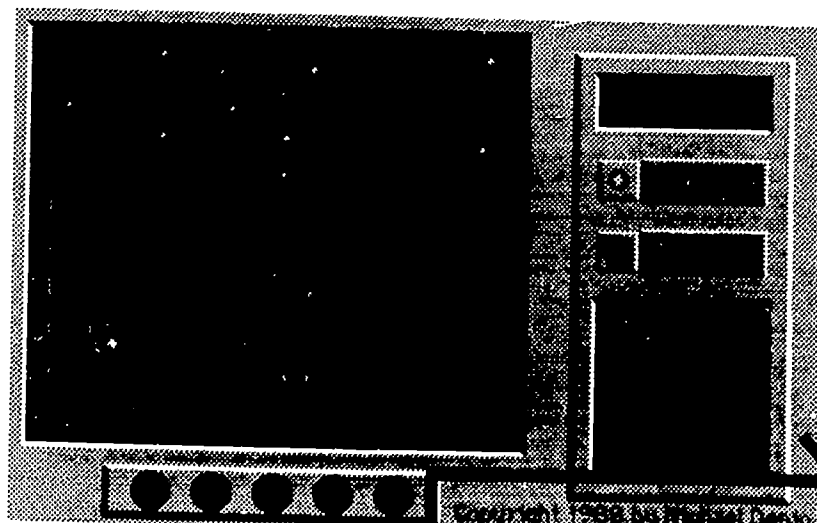
EGA COLORING BOOK is a SHAREWARE product. Please feel free to make copies of this version and pass them on to others for their evaluation. If you decide to use this program you are expected to pay a registration fee of \$16.00. The benefits of registration are described in the manual.
PRESS ANY KEY

Thank you very much for evaluating

EGA COLORING BOOK.

EGA Coloring Book is a Shareware product. Please feel free to make copies of this version and pass them on to others for their evaluation. If you decide to use this program you are expected to pay a registration fee of \$16.00. The benefits of registration are explained in the manual. I hope EGA Coloring Book becomes part of your children's software library.

Copyright
Notices



Copyright 1990 by Michael Harris

Smithsonian Art Gallery

Description: The Smithsonian Art Gallery is now on the Internet. It offers artwork, photographic images, descriptions, and viewing software. The images from this gallery are free, just respect the copyright notices on the images.

Suggestions for classroom use: Art projects, science papers, and presentations.

Additional notes: May want to start with an empty diskette because the images and software that you download are large.

Instructions

Connect to the Smithsonian Art Gallery Gopher Server:

"Tunnel" to the Smithsonian Gopher -

Search using Veronica for the Smithsonian Gopher

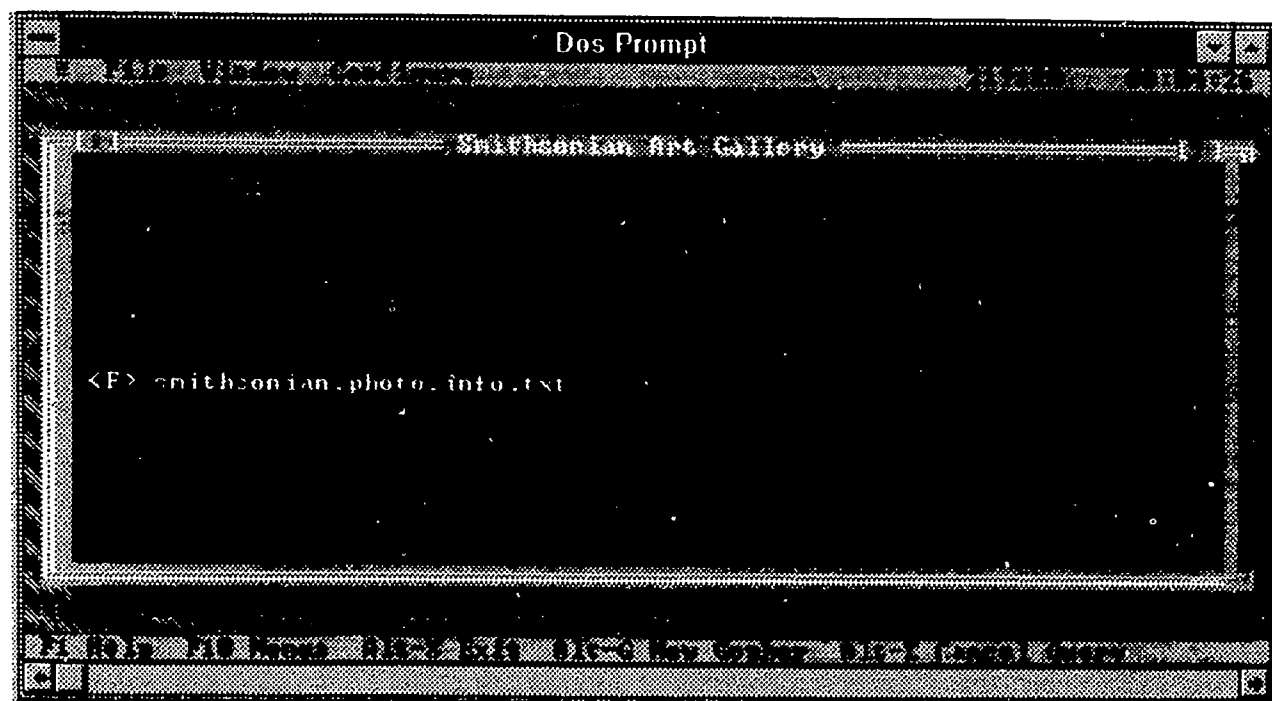
Download the instructions

You should always download instructions and read them.

Double click on

<F> Smithsonian photo.info.txt

Read



BEST COPY AVAILABLE

Download the catalog so you know what is available

Choose the following from the main menu:

<D> apps

<D> dos

 PKUNZIP.EXE

Download this file as b:\pkunzip.exe - This is a program that decompresses. The catalog that you will download is compressed and you will need PKUNZIP to decompress it.

Return to the Smithsonian Art Gallery main menu

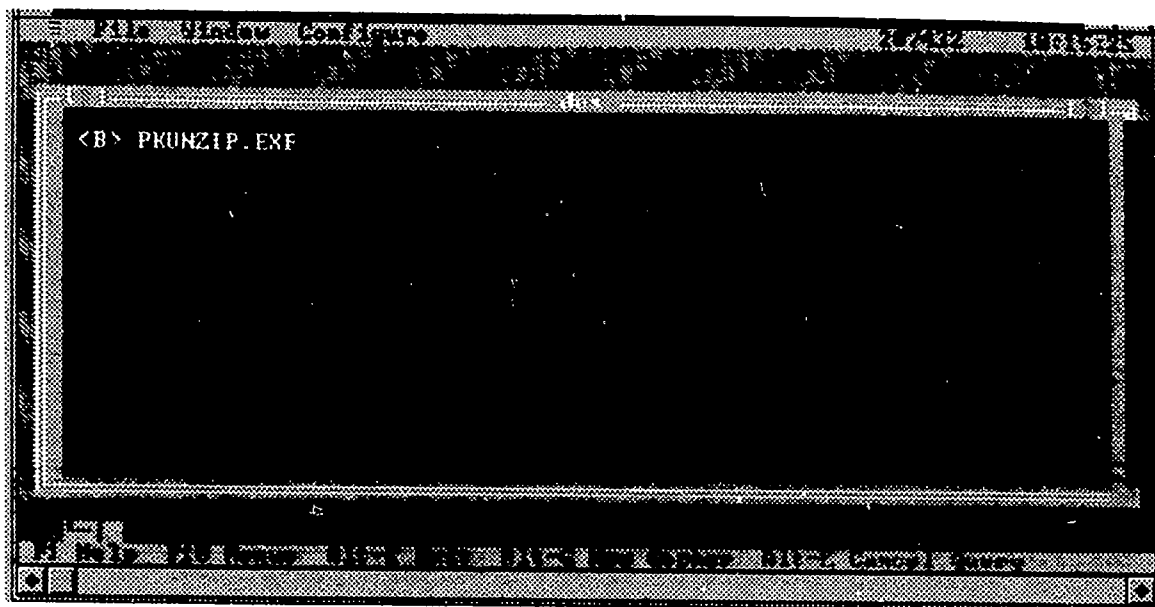
<D> images

<D> catalogs

<D> dos

 photo1.zip

Download this file as b:\photo1.zip - Notice the .zip extension. This means the file is compressed and you will need PKUNZIP



Download the viewing software so you can view the images that you download. If you already have a GIF viewer you can skip this step.

Return to the Smithsonian Art Gallery main menu and choose the following:

<D> apps

<D> dos

<D> CSHOW 2000

 cshowa.exe

Download this file as b:\cshowa.exe. Notice the extension is .exe. This means the file is not compressed and it is ready to go.

<F> describe.txt

Read or download this file. This is the text description of the viewing program.

BEST COPY AVAILABLE

Downloading images:

Return to the Smithsonian Art Gallery main menu and choose the following:

<D> images

<D> gif89a

Choose the subject you would like

Choose the image you would like to download

Type b:\XXXX.gif where XXXX is the name of the file.

NOTE: Always put the extension .gif on the name of the image

Decompressing and using the image catalog:

Exit Gopher - File - Exit

Type b: and enter to use your B: drive

Type pkunzip photo1.zip

This program will expand automatically into three files.

Type PHOTO1 to start the catalog program. This program allows you to search for images and gives you descriptions of all the images in the gallery. When you find an image you want: write down the library name and image name.

Viewing your images

Decompressing your viewer (only need to do once) - skip if you already have a viewer

Type B: to use your B: drive

Type CSHOWA to decompress the viewer

Viewing your images

Type cshow

Highlight the image you wish to view and press the space bar

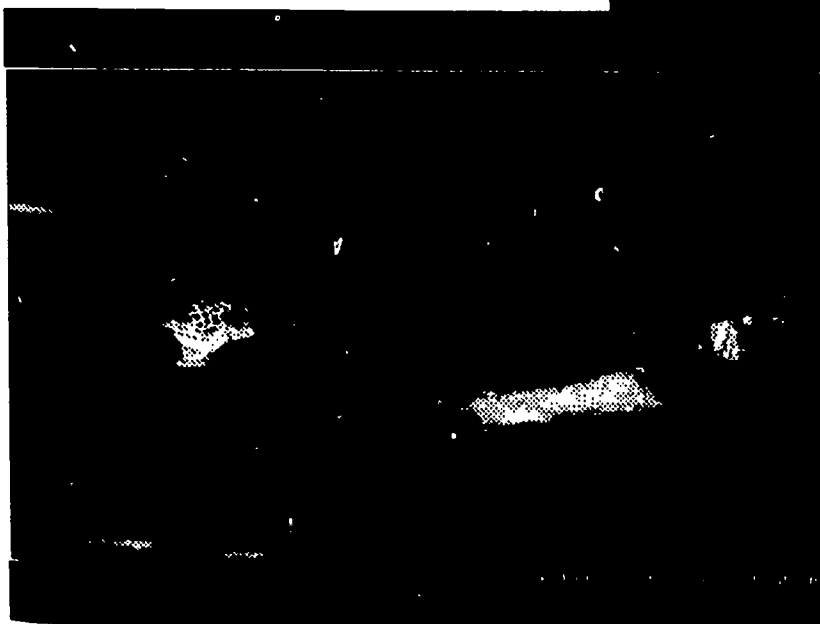
Press enter to view

Press Y to see comments

Smithsonian Art Gallery



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